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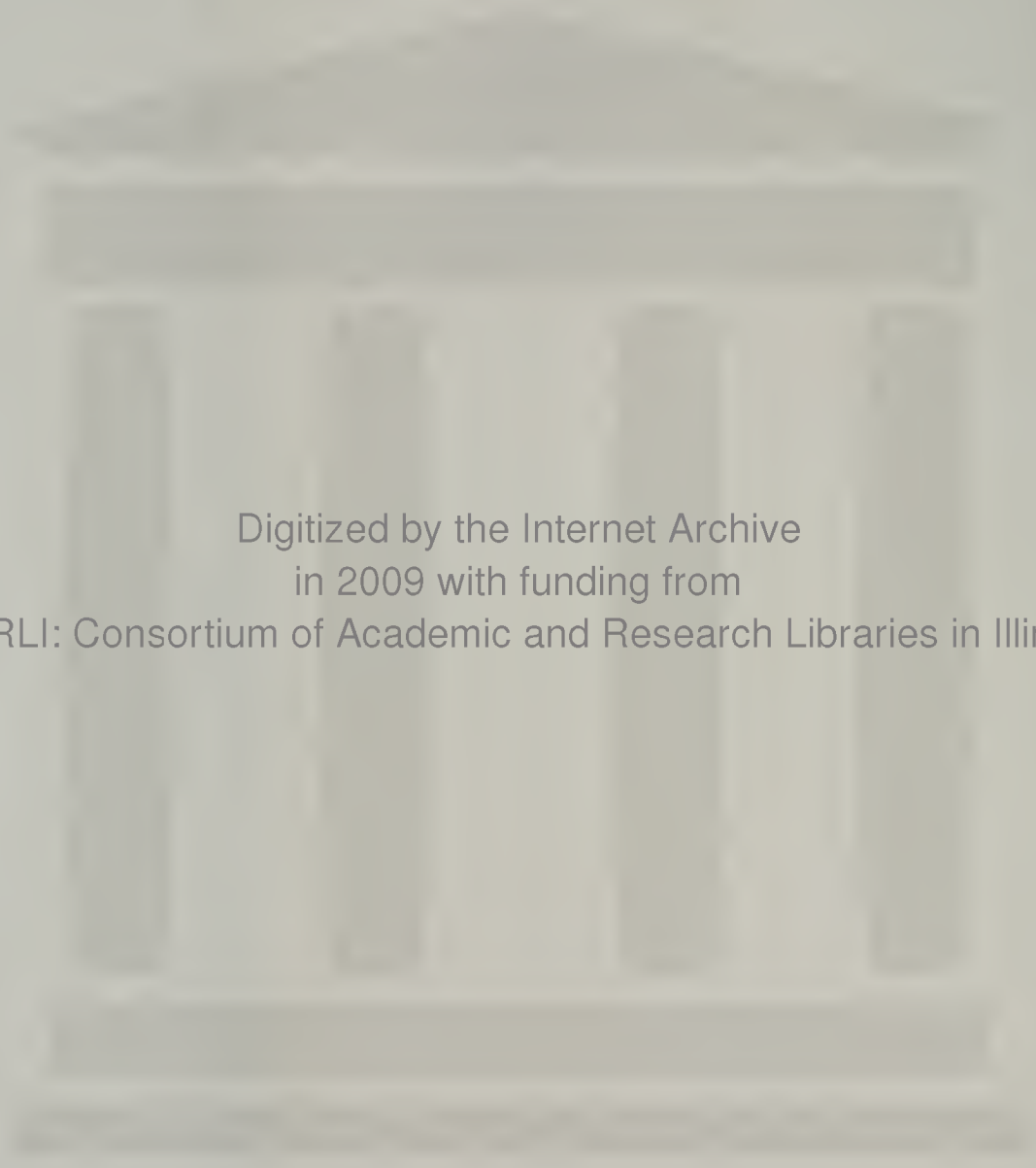
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Learning and Labor

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University of Illinois

ANNOUNCEMENTS

1904-1905

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Register for 1903-1904

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URBANA, ILLINOIS  
PUBLISHED BY THE UNIVERSITY  
APRIL 1, 1904

EXCISE  
DUES

HACK & ANDERSON  PRINTERS, CHICAGO



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1903-04  
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# THE UNIVERSITY CALENDAR

1904-1905

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1904

## FIRST SEMESTER

- Sept. 7, Wednesday. Entrance Examinations begin.  
Sept. 12, 13, Monday  
and Tuesday. Registration Days.  
Sept. 14, Wednesday. Instruction begins.  
Oct. 31, Monday. Latest date for announcing Subjects of  
Theses.  
Nov. 24, Thursday. Thanksgiving Day.  
Dec. 21, Wednesday. Holiday Recess begins.

1905.

- Jan. 3, Tuesday. Instruction resumed.  
Jan. 27, Friday. First Semester ends.

## SECOND SEMESTER

- Jan. 30, Monday. Instruction begins.  
May 11, 12, Thursday  
and Friday. University High School Conference.  
May 12, Friday eve-  
ning. Interscholastic Oratorical Contest.  
May 11, 12, 13, Thurs-  
day to Saturday. Public School Art Exhibit.  
May 13, Saturday. Interscholastic Athletic Meet.  
May 22, Monday. } Hazelton Prize Drill.  
} Company Competitive Drill.  
May 26, Friday. Latest Day for Acceptance of Theses.  
June 4, Sunday. Baccalaureate Address.  
June 5, Monday. Class Day.  
June 6, Tuesday. Alumni Day.  
June 7, Wednesday. Thirty-fourth Annual Commencement.

FIRST SEMESTER

- Sept. 13, Wednesday. Entrance Examinations begin.
- Sept. 18, 19, Monday and Tuesday. Registration Days.
- Sept. 20, Wednesday. Instruction begins.
- Nov. 6, Monday. Latest date for Announcing Subjects of Theses.
- Nov. 30, Thursday. Thanksgiving Day.
- Dec. 15, Friday. Holiday Recess begins.
- 1906.
- Jan. 2, Tuesday. Instruction resumed.
- Jan. 26, Friday. First Semester ends.

CALENDAR

1904							1905																													
<b>SEPTEMBER</b>							<b>JANUARY</b>							<b>MAY</b>							<b>SEPTEMBER</b>															
SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT		
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11	12	13	14	15	16	17	15	16	17	18	19	20	21	14	15	16	17	18	19	20	24	25	26	27	28	29	30	24	25	26	27	28	29	30		
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SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT		
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<b>NOVEMBER</b>							<b>MARCH</b>							<b>JULY</b>							<b>NOVEMBER</b>															
SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT		
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<b>DECEMBER</b>							<b>APRIL</b>							<b>AUGUST</b>							<b>DECEMBER</b>															
SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT		
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A. E. EBERT, Chicago, Term Expires in 1908.



## THE UNIVERSITY SENATE

---

(The members of the Council of Administration are also members of the Senate.)

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LESTER PAIGE BRECKENRIDGE, Ph.B., Professor of Mechanical Engineering. *1005 West Green Street, U.*

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\* Deceased.

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*908 West California Avenue, U.*
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*915 West Illinois Street, U.*
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*802 West Illinois Street, U.*
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omy. *1001 South Wright Street, C.*
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fessor of Military Science and Tactics.  
*205 West Hill Street, C.*
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neering. *1012 West Oregon Street, U.*
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*903 West California Avenue, U.*
- THOMAS EDWARD OLIVER, Ph.D., Professor of Romanic  
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## THE GENERAL FACULTY

(The General Faculty includes, besides those named below, the members of the Council of Administration and the University Senate.)

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*1013 West Illinois Street, U.*

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*716 West University Avenue, C.*

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*906 West California Avenue, U.*

EDGAR J TOWNSEND, PH.D., Associate Professor of Mathematics.

*510 John Street, C.*

HARRY SANDS GRINDLEY, Sc.D., Associate Professor of Chemistry.

*918 West Green Street, U.*

FRANK SMITH, A.M., Assistant Professor of Zoölogy.

*913 West California Avenue, U.*

CYRUS DANIEL McLANE, B.S., Assistant Professor of Architectural Construction.

*512 West High Street, U.*

SETH JUSTIN TEMPLE, PH.B., Assistant Professor of Architecture.

*1016 West California Avenue, U.*

GEORGE ALFRED GOODENOUGH, M.E., Assistant Professor of Mechanical Engineering.

*909 West Green Street, U.*

MATTHEW BROWN HAMMOND, PH.D., Assistant Professor of Economics.

*904 South Busey Avenue, U.*

DAVID HOBART CARNAHAN, A.M., Assistant Professor of Romanic Languages. (*On leave.*)

EDWARD FULTON, PH.D., Assistant Professor of Rhetoric.

*1014 West Oregon Street, U.*

- EDWARD CHAUNCEY BALDWIN, PH.D., Assistant Professor of English Literature. *704 West Oregon Street, U.*
- STEPHEN SHELDON COLVIN, PH.D., Assistant Professor of Psychology. (*On leave.*)
- CHARLES FREDERICK HOTTES, PH.D., Assistant Professor of Botany. *915 West California Avenue, U.*
- NEIL CONWELL BROOKS, PH.D., Assistant Professor of German. *705 West Green Street, U.*
- ELLIOTT JUDD NORTHRUP, A.B., LL.B., Assistant Professor of Law. *1011 West Oregon Street, U.*
- WILLIAM HENRY WILLIAMS, B.E.E., Assistant Professor of Electrical Engineering. *917 West Green Street, U.*
- HENRY LAWRENCE SCHOOLCRAFT PH.D., Assistant Professor of History. *1001 West California Avenue, U.*
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- JOHN WILLIAM LLOYD, M.S.A., Assistant Professor of Olericulture. *1005 South Wright Street, C.*
- NATHAN AUSTIN WESTON, PH.D., Assistant Professor of Economics. *604 West Healy Street, C.*
- FRANCES SIMPSON, M.L., Assistant Professor of Library Economy. Reference Librarian. *802 West Illinois Street, U.*
- BENJAMIN WITMER BRENEMAN, Assistant Professor of Voice Culture. *1012 West California Avenue, U.*
- CHARLES SPENCER CRANDALL, M.S., Assistant Professor of Pomology. Chief Assistant in Pomology at the Agricultural Experiment Station. *805 Goodwin Avenue, U.*
- WILLIAM CULLEN DENNIS, A.M., LL.B., Assistant Professor of Law. *918 West Oregon Street, U.*
- HORACE ADELBERT HOLLISTER, A.M., Assistant Professor of Education. High School Visitor. *719 West Hill Street, C.*
- OSCAR ADOLPH LEUTWILER, M.E., Assistant Professor of Machine Design. *904 South Sixth Street, C.*
- DWIGHT T RANDALL, B.S., Assistant Professor of Steam Engineering. *608 South Busey Avenue, U.*
- ARTHUR GRAHAM HALL, PH.D., Assistant Professor of Mathematics. *911 West California Avenue, U.*

- CHARLES TOBIAS KNIPP, PH.D., Assistant Professor of  
Physics. *506 West Illinois Street, U.*
- JENNETTE EMELINE CARPENTER, Instructor in Physical  
Training for Women. *802 West Illinois Street, U.*
- WILLIAM CHARLES BRENKE, M.S., Instructor in Mathe-  
matics. *1005 West Oregon Street, U.*
- EDWARD LAWRENCE MILNE, M.S., Instructor in Mathe-  
matics. *307 West Hill Street, C.*
- MARTHA JACKSON KYLE, A.M., Instructor in Rhetoric.  
*502 South Goodwin Avenue, U.*
- HENRY LIVINGSTON COAR, PH.D., Instructor in Mathematics.  
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- BERNARD JOHN CIGRAND, M.S., D.D.S., Professor of Pros-  
thetic Dentistry, Technic and History.  
*Corner North Avenue and Robey Street.*

GEORGE WASHINGTON COOK, B.S., D.D.S., Professor of Bacteriology, Pathology and Regional Surgery.

*Corner 47th Street and Kenwood Avenue.*

DONALD M. GALLIE, D.D.S., Professor of Operative Dentistry and Operative Technic.

*100 State Street.*

GEORGE WALTER DITTMAR, D.D.S., Associate Professor of Operative Dentistry, Technic and Superintendent of Infirmary.

*College.*

JOHN P. BUCKLEY, PH.G., D.D.S., Professor of Materia Medica and Therapeutics.

*Corner Robey and Madison Street.*

JAMES NELSON MACDOWELL, D.D.S., Professor of Orthodontia.

*Venetian Building.*

GEORGE THOMAS CARPENTER, M.D., D.D.S., Professor of Oral Surgery.

*Trude Building.*

FRANK EWING ROACH, D.D.S., Professor of Porcelain Work.

*Trude Building.*

T. ELAHAN POWELL, D.D.S., Professor of Comparative Anatomy.

*Stewart Building.*

LEVITTE E. CUSTER, D.D.S., Professor of Radiography.

*Dayton, Ohio.*

CHARLES ERWIN JONES, B.S., D.D.S., Associate Professor of Prosthetic Technic.

*College.*

OSCAR A. KING, M.D., Professor of Neurology.

*70 State Street.*

DANIEL ATKINSON K. STEELE, M.D., Consulting Surgeon.

*Columbus Memorial Building.*

WILLIAM THOMAS ECKLEY, M.D., Professor of General and Regional Anatomy.

*979 Jackson Boulevard.*

JACOB F. BURKHOLDER, M.D., Professor of Physiology.

*Reliance Building.*

FRED. CARL ZAPFFE, M.D., Professor of Histology and Microscopy.

*1764 Lexington Street.*

ELMER DEWITT BROTHERS, B.S., L.L.B., Professor of Dental Jurisprudence.

*New York Life Building.*

JOSEPH McINTYRE PATTON, M.D., Professor of Physical Diagnosis and General Anesthetics.

*237 South Hoyne Avenue.*

JAMES C. BISHOP, M.S., Professor of Chemistry.

*Corner Warren Avenue and Robey Street.*

CLAYTON M. McCAULEY, B.S., D.D.S., Adjunct Professor of  
Operative Technic.

*Corner 47th Street and Cottage Grove Avenue.*

ASHLEY HEWITT, D.D.S., Professor of Electricity.

*824 West Madison Street.*

CORINNE B. ECKLEY, Associate Professor of General and Re-  
gional Anatomy.

*979 Jackson Boulevard, Chicago.*

WILLIAM M. HARSHA, M.D., Oral Surgery and General Anes-  
thetics.

*Columbus Memorial Building, Chicago.*

SETH E. MEEK, PH.D., Comparative Physiology.

*Field Columbian Museum, Chicago.*

## SCHOOL OF PHARMACY

[465-467 State Street, Chicago.]

### FACULTY

ANDREW SLOAN DRAPER, LL.D., PRESIDENT. *Urbana.*

FREDERICK MARION GOODMAN, PH.G., DEAN OF THE FAC-  
ULTY, Professor of Materia Medica and Botany.

*465 State Street.*

CARL SVANTE NICANOR HALLBERG, PH.G., Professor of  
Theoretical and Practical Pharmacy.

*358 Dearborn Street.*

WILLIAM AUGUST PUCKNER, PH.G., Professor of Chemistry.

*75 Wells Street.*

WILLIAM BAKER DAY, PH.G., SECRETARY OF THE FACULTY,  
Professor of Histological Botany.

*465 State Street.*

HENRY HORACE ROGERS, PH.B., M.D., Lecturer in Physi-  
ology.

*Kankakee.*

EPHRAIM IRVINE DENSMORE, PH.G., Instructor in Phar-  
macy.

*358 Dearborn Street.*

EDMUND NORRIS GATHERCOAL, PH.G., Instructor in Phar-  
macognosy.

*Wilmette.*

WALTER SCHMITT, Instructor in Chemistry. *465 State Street.*

CLYDE MASON SNOW, PH.G., Instructor in Pharmacy.

*465 State Street.*

## ACADEMY

## INSTRUCTORS

- FRANK HAMSHER, A.B., PRINCIPAL (*On leave.*)  
 BERTHA MARION PILLSBURY, A.M., Instructor in English.  
*506 West Elm Street, U.*  
 JOHN EZRA MILLER, A.M., Instructor in Greek and Latin.  
*302½ West Illinois Street, U.*  
 ERNEST BARNES LYTLE, B.S., Instructor in Mathematics.  
*913 West California Avenue, U.*  
 MARGARET ANNIE SCOTT, Instructor in French and German.  
*915 West California Avenue, U.*  
 WALTER CHARLES LINDLEY, A.B., Instructor in Rhetoric.  
*406 East John Street, C.*  
 JOHN THOMAS JOHNSON, Instructor in Science.  
*928 West Green Street, U.*  
 JOSEPH HINCKLEY GORDON, A.M., Instructor in History and  
 Mathematics. *708 South Fourth Street, C.*  
 CHARLES WILLIAM WHITTEN, Instructor in Physics and  
 Mathematics. *311 West Illinois Street, U.*  
 NOAH KNAPP, Assistant in Mathematics.  
*208 East Green Street, U.*

STATE LABORATORY OF NATURAL  
HISTORY

## LABORATORY STAFF

- PROFESSOR STEPHEN ALFRED FORBES, PH.D., DIRECTOR.  
*1209 West Springfield Avenue, U.*  
 CHARLES ARTHUR HART, Systematic Entomologist and Custodian.  
*923 West Green Street, U.*  
 MARY JANE SNYDER, Secretary.  
*504 East Daniel Street, C.*  
 FRANCIS MARION WEBSTER, M.S., Assistant on Biological  
 Survey. *909 West California Avenue, U.*  
 ROBERT EARL RICHARDSON, A.M., Assistant on Biological  
 Survey. *706 West Green Street, U.*

ESTES PARK TAYLOR, B.S., Field Entomologist.

*1006½ West Green Street, U.*

EARL QUINTER SNIDER, Accountant.

*916 West Illinois Street, U.*

FREDERICK KNAB, Artist.

*1108 West Illinois Street, U.*

## AGRICULTURAL EXPERIMENT STATION

### STATION STAFF.

PROFESSOR EUGENE D'AVENPORT, M.AGR., DIRECTOR.

*Experiment Station Farm, U.*

PROFESSOR THOMAS JONATHAN BURRILL, PH.D., Botanist.

*1007 West Green Street, U.*

PROFESSOR CYRIL GEORGE HOPKINS, PH.D., Vice-Director,  
Specialist in Agronomy and in charge of Chemical Laboratory.

*1001 South Wright Street, C.*

PROFESSOR STEPHEN ALFRED FORBES, PH.D., Consulting Entomologist.

*1209 West Springfield Avenue, U.*

PROFESSOR DONALD McINTOSH, V.S., Consulting Veterinarian.

*511 West Park Street, C.*

PROFESSOR HERBERT WINDSOR MUMFORD, B.S., Chief in Animal Husbandry.

*608 South Mathews Avenue, U.*

PROFESSOR JOSEPH CULLEN BLAIR, Chief in Pomology.

*810 West Oregon Street, U.*

ASSISTANT PROFESSOR WILBER JOHN FRASER, B.S., Chief in Dairy Husbandry.

*1003 South Wright Street, C.*

ASSISTANT PROFESSOR CHARLES FREDERICK HOTTES, PH.D.,  
Assistant in Botany.

*915 West California Avenue, U.*

ASSISTANT PROFESSOR JOHN WILLIAM LLOYD, B.S.A., Chief Assistant in Olericulture.

*1005 South Wright Street, C.*

ASSISTANT PROFESSOR CHARLES SPENCER CRANDALL, M.S.,  
Chief Assistant in Pomology.

*805 Goodwin Avenue, U.*

LOUIE HENRIE SMITH, M.S., Chief Assistant in Chemistry and Plant Breeding.

*507 John Street, C.*

ARTHUR JAMES GLOVER, B.AGR., Chief Assistant in Dairy Husbandry.

*Elgin, Ill.*

- JEREMIAH GEORGE MOSIER, B.S., Chief Assistant in Soil Physics. *907 West Illinois Street, U.*
- EDWARD MURRAY EAST, B.S., Assistant in Chemistry. *806 South Goodwin Avenue, U.*
- JAMES HARVEY PETTIT, PH.B., Assistant in Soil Analysis. *914½ West California Avenue, U.*
- CATHERINE McCALLUM McINTYRE, Secretary. *310 East Green Street, C.*
- WILLIAM FRANKLIN PATE, B.S., Assistant in Chemistry. *511 East Green Street, C.*
- JOSEPH WILLIAM HART, Chief Assistant in Dairy Manufactures. *912 West California Avenue, U.*
- WILLIAM DIETRICH, B.S.A., Assistant in Swine Husbandry. *705½ West California Avenue, U.*
- RUFUS CHANCEY OBRECHT, B.S.A., Assistant in Horse Investigation. *608 Mathews Avenue, U.*
- CLIFFORD WILLIS, B.S., Assistant in Soil Physics. *503 High Street, U.*
- CASSIUS CLAY HAYDEN, B.S.A., Assistant in Dairy Husbandry. *507 John Street, C.*
- HERBERT ANDREW HOPPER, B.S.A., Assistant in Dairy Husbandry. *507 John Street, C.*
- JENNIE MARY LATZER, M.S., Assistant in Bacteriology. *111 East Green Street, C.*
- CURT AUGUST SCHROEDER, M.S., Assistant in Chemistry. *407 Green Street, C.*
- IRA OBED SCHAUB, B.S., Assistant in Chemistry. *901 Illinois Street, U.*
- EDWIN STANTON GOOD, B.S., Assistant in Animal Husbandry. *608 Mathews Avenue, U.*
- CARL EMIL LEE, B.S., Assistant in Dairy Husbandry. *Elgin, Illinois.*
- JAMES THEOPHILUS BARRETT, B.S., Assistant in Botany. *726 West Illinois Street, U.*





# UNIVERSITY OF ILLINOIS

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## LOCATION

The University of Illinois is situated in Champaign County, in the eastern central part of the state, between the cities of Urbana and Champaign, and within the corporate limits of the former. It is one hundred and twenty-eight miles south of Chicago, at the junction of the Illinois Central, the Cleveland, Cincinnati, Chicago and St. Louis, and the Wabash, railroads. The country around is a rich and prosperous agricultural region. The cities of Urbana and Champaign have, together, a population of about 17,000.

## HISTORY

In 1862 the national government donated to each state in the Union public land scrip in quantity equal to 30,000 acres for each senator and representative in congress, "for the endowment, support, and maintenance of at least one college, whose leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts \* \* \* in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

On account of this grant the state pays the University, semi-annually, interest at the rate of five per cent. on about \$610,000, and deferred payments on land contracts amount, approximately, to \$35,000.

To secure the location of the University several counties

entered into competition by proposing to donate to its use specified sums of money, or their equivalent. Champaign County offered a large brick building in the suburbs of Urbana, erected for a seminary and nearly completed, about 1,000 acres of land, and \$100,000 in county bonds. To this the Illinois Central Railroad added \$50,000 in freight.

The state has from time to time appropriated various sums for permanent improvements, as well as for maintenance. The present value of the entire property and assets is estimated at \$2,600,000.

The institution was incorporated February 28, 1867, under the name of the Illinois Industrial University, and placed under the control of a Board of Trustees, constituted of the Governor, the Superintendent of Public Instruction and the President of the State Board of Agriculture, as *ex-officio* members, and twenty-eight citizens appointed by the Governor. The chief executive officer was called Regent, and was made an *ex-officio* member of the Board and presiding officer both of the Board of Trustees and of the Faculty.

In 1873 the Board of Trustees was reorganized, the number of appointed members being reduced to nine and of *ex-officio* members to two—the Governor and the President of the State Board of Agriculture. In 1887 a law was passed making membership elective, at a general state election, and restoring the Superintendent of Public Instruction as an *ex-officio* member. There are, therefore, now three *ex-officio* and nine elective members. Since 1873 the President of the Board has been chosen by the members from among their own number for a term of one year.

The University was opened to students March 2, 1868. The number of students enrolled at this time was about fifty, and the Faculty consisted of the Regent and three professors. During the first term another instructor was added, and the number of students increased to 77—all young men.

During the first term instruction was given in algebra,

geometry, physics, history, rhetoric, and Latin. Work on the farm and gardens, or about the buildings, was at first compulsory for all students. In March of the next year, however, compulsory labor was discontinued, save when it was made to serve as a part of class instruction. A chemical laboratory was fitted up during the autumn of 1868. Botanical laboratory work began the following year. In January, 1870, a mechanical shop was fitted up with tools and machinery, and here was begun the *first shop instruction* given in any American university. During the summer of 1871 the Wood Shops and Testing Laboratory, burned June 9, 1900, was erected and equipped for students' shop work in both wood and iron.

By vote, March 9, 1870, the Trustees admitted women as students. During the year 1870-71 twenty-four availed themselves of the privilege. Since that time they have constituted from one-sixth to one-fifth of the total number of students.

According to the original state law, the usual diplomas and degrees could not be granted by the University, but certificates showing the studies pursued and the attainments in each were given instead. The certificates proved unsatisfactory to the holders, and in 1877 the legislature gave the University authority to confer degrees and issue diplomas.

In 1885 the legislature changed the name of the institution to the "University of Illinois." It also passed a bill transferring the *State Laboratory of Natural History* from the Illinois State Normal University to the University of Illinois. This laboratory was created by law for the purpose of making a natural history survey of the state, the results of which should be published in a series of bulletins and reports, and for the allied purpose of furnishing specimens illustrative of the flora and fauna of the state to the public schools and to the state museum. For these purposes direct appropriations are made by the legislature from session to session. A large amount of material has been collected,

and extended publications have been made in both the forms above mentioned.

By an act approved March 2, 1887, the national government appropriated \$15,000 per annum to each state for the purpose of establishing and maintaining, in connection with the colleges founded upon the congressional act of 1862, agricultural experiment stations, "to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science." Under this provision the *Agricultural Experiment Station* for Illinois was placed under the direction of the Trustees of the University, and a part of the University farm, with buildings, was assigned for its use. At least one bulletin of results is published every three months, and the copies are gratuitously distributed over the state. Editions of 28,000 copies are now issued.

In 1890 the Congress of the United States made further appropriations for the endowment of the institutions founded under the act of 1862. Under this enactment each such college or university received the first year \$15,000, the second \$16,000, and thereafter was to receive \$1,000 per annum additional to the amount of the preceding year, until the amount reached \$25,000, which sum was to be paid yearly thereafter.

May 1, 1896, the *Chicago College of Pharmacy*, founded in 1859, became the *School of Pharmacy of the University of Illinois*. Its rooms are at 465 State Street, Chicago.

At the meeting of the Board of Trustees of the University held December 8, 1896, upon recommendation of the President of the University, the Trustees voted to take steps for the organization of a law school. Appropriations were made for salaries, for the purchase of books, and for incidental expenses. Pursuant to this action of the Board of Trustees, the *School of Law* was organized, and opened September 13, 1897. The course of study covered two

years, in conformity with the existing requirements for admission to the bar of Illinois. In the following November, however, the supreme court of the state announced rules relating to examinations for admission to the bar which made three years of study necessary, and the course of study in the Law School was immediately rearranged on that basis. On February 9, 1900, the name of the School of Law was changed, by vote of the Board of Trustees, to *College of Law*.

Negotiations looking to the affiliation of the College of Physicians and Surgeons, of Chicago, with the University, which had been going on for several years, were concluded by the Board of Trustees by action taken upon propositions submitted by the College of Physicians and Surgeons to the Board at its meeting of March 9, 1897. According to the agreement made, the College of Physicians and Surgeons became on April 21, 1897, the *College of Medicine of the University of Illinois*. The College is located at 813 West Harrison Street, Chicago.

At the meeting of the Board of Trustees held April 22, 1897, the matter of the appointment of a librarian was considered by the Board and referred to a committee. This action of the Board was taken with a view of bringing to the University the School of Library Economy, which had been established in 1893 at the Armour Institute of Technology, in Chicago, and of securing the Director of that school for librarian of the University library. These plans were carried out, and the *State Library School* was opened at the University in September, 1897.

Pursuant to action taken by the Board of Trustees March 12, 1901, a School of Dentistry was organized as a department of the College of Medicine. The School, now College, of Dentistry was opened October 3, 1901.

## BUILDINGS AND GROUNDS

The land occupied by the University and its several departments embraces about 220 acres.

*The Chemical Laboratory* is a three-story building, the ground plan of which is shaped like the letter E. The extreme dimensions are 230 feet along the front and 116 feet along the wings. The middle rear wing contains the lecture amphitheater, which will seat 350. The end wings contain the large general laboratories. The central part of the building is occupied by offices, museum, class and seminary rooms, supply rooms, etc., and a number of special rooms for research work. There is a well-lighted basement, which contains the heating and ventilating plant, and rooms for assaying and metallurgy.

*Engineering Hall* has a frontage of 200 feet, a depth of 76 feet on the wings, and 138 feet in the center. The first story contains the laboratories of the department of physics, the drafting room, and one recitation room of the department of electrical engineering, the masonry laboratories, instrument rooms, and workshop of the department of civil engineering. The second story contains the lecture room and the preparation rooms of the department of physics, the recitation and drawing rooms, cabinets, and studies of the departments of civil and of municipal engineering, and the office of the department of electrical engineering. The third story contains the elementary laboratory of the department of physics, the drawing rooms, lecture rooms, cabinets, and studies of the mechanical department, as well as the dean's offices, the faculty parlor, and library. The fourth story is devoted to the department of architecture, and contains drawing and lecture rooms, cabinets, a photograph studio, a blue-print laboratory, and the architectural library.

*The Wood Shop* is a brick building in the form of a cross, one portion being about 200 by 46 feet, one story high, while the other part is 52 by 80 feet, and two stories high. This shop contains the bench room, lathe room, ma-

chine room, lecture room, exhibition room, tool room, office, and room for pattern storage and repair work.

*The Metal Shops* is a one-story brick building, 50 by 250 feet. It contains a lecture room, two office rooms, a machine shop, a foundry, and a forge shop. The machine shop is 48 by 140 feet. Power is supplied by a 20 H. P. electric motor. A three-ton traveling crane of 12 foot span covers the center of the floor for the entire length, extending over a covered driveway between the machine shop and foundry.

*The Mechanical and Electrical Engineering Laboratory* is a brick building, two stories high, 100 feet long, and 50 feet wide, with a one-story wing 90 feet long and 50 feet wide. There is a basement under the main part, containing some special testing rooms, store rooms, and the toilet and wash rooms.

*The Laboratory of Applied Mechanics* is a brick building. The materials testing laboratory occupies the front, 45 by 65 feet; while the rear wing, 45 by 106 feet, contains the hydraulic laboratory.

*The Central Heating Station* is a brick building, 55 by 120 feet. It contains the apparatus used for heating the buildings on the campus. An annex contains the pump room and the stock room. The pipes of the heating system and the wires for power and light are carried from the Central Heating Station to the several buildings through brick tunnels 6½ feet high by 6 feet wide. The length of tunnel thus far constructed is 1,800 feet.

*The Pumping Station* of the University water-works is a brick building, 38 by 73 feet, connected with the Central Heating Plant. Two 8-inch wells, 145 feet deep, supply the University with wholesome water. A masonry reservoir provides for a fire reserve supply. The pumps, tanks, and connections are arranged to give opportunities for experimental work and also to vary the working conditions in the adjacent hydraulic laboratory.

*The Armory*, 100 by 150 feet in one grand hall, gives

ample space for company and battalion maneuvers and for large audiences upon special occasions.

*Natural History Hall* is 134 by 94 feet, with basement, two main stories, and an attic. It is occupied by the departments of botany, zoölogy, physiology, mineralogy, and geology, for each of which there are laboratories, lecture rooms, and offices, and contains the office and equipments of the State Laboratory of Natural History. There are six laboratory rooms on each of the main floors,—sufficient altogether to accommodate 200 students, besides offering abundant facilities for the private work of the instructors.

*The Astronomical Observatory* is in the form of the letter T, the stem of which extends toward the south. The equatorial room, surmounted by the dome, is at the intersection of the stem and bar of the T. Besides the equatorial room the Observatory contains four transit rooms, a clock room, a recitation room, and a study.

*University Hall* occupies three sides of a quadrangle, measuring 214 feet in front and 122 feet upon the wings. It is devoted almost exclusively to class rooms.

*The Library Building* is 167 by 113 feet, with a tower 132 feet high. The main floor contains the reference room, the reading room, the conversation room, the cataloguing room, and the delivery room, which opens into the second story of the book-stack. The second floor contains the Library School study room, seminary rooms, the Bolter collection of insects, and the administrative offices of the University. The basement contains the Library School lecture room and other well-lighted rooms, which are at present used for various purposes. The book-stack is a rear wing to the building, separated from the rest of it by a fireproof wall. The stack will eventually contain five stories, and will accommodate 150,000 volumes. At present but three stories are fitted with shelving.

*The Agricultural Building*, erected at a cost of \$150,000, consists of four separate structures, built around an open court and connected by corridors. The main building is



248 feet long, from 50 to 100 feet in depth, and three stories high, and contains offices, class rooms, and laboratories for the departments of agronomy, animal husbandry, dairy husbandry, horticulture, and veterinary science; offices of the State Entomologist; the chemical laboratory of the Experiment Station; commodious administration rooms; an assembly room with a seating capacity of 500, and on each floor a fireproof vault for records. The other three buildings are each 45 by 116 feet and two stories high; one is for dairy manufactures, one for farm machinery, and one for veterinary science and stock judging. These buildings are of stone and brick, roofed with slate, and contain, all told, 113 rooms and a total floor space of nearly two acres. An adjacent glass structure serves the departments of agronomy and horticulture. There are, in addition to these buildings, a veterinary hall, three dwellings, three large barns, and a greenhouse.

*The Men's Gymnasium* is a new three-story building of stone and pressed brick, 100 by 150 feet. On the first floor there is a swimming pool, lined with white enamel bricks, 26 feet wide, 75 feet long, and 8 feet deep at the lower end. This floor contains, also, the general locker room, which is fitted up with all-metal lockers, and with shower, tub, and steam baths; rooms for the University athletic teams; a room for visiting teams; a special dressing room for members of the faculty; and offices for the physical director and athletic instructors. The entire second floor is one large room, which is fitted up with all the modern appliances for gymnastic exercise. The third floor contains an elevated running track, 15 laps to the mile, which is properly banked on the turns to secure the greatest speed and comfort in running.

*The new Woman's Building*, which, it is expected, will be completed by the autumn of 1904, is to cost \$80,000. It is to be in pure New England colonial style of architecture, and will be built of reddish brown brick with white stone trimmings. The central part of the structure will be given

to athletics. There will be a gymnasium 92x50 feet, a large swimming tank, and abundant provision for lockers, dressing rooms and baths. The north wing of the building will be given to the department of household economics, and the south wing will provide rooms for the social life of the women students.

## LABORATORIES\*

### SCIENCE LABORATORIES

The *botanical, geological, physiological, and zoölogical laboratories* are in Natural History Hall.

The *chemical laboratory* occupies the building of the same name, already described.

The *physical laboratory* is in Engineering Hall. It is provided with piers, a constant temperature room, and other conveniences for measurement work.

The *psychological laboratory*, in University Hall, is well provided with apparatus of many different kinds for use in experimental study, research, and instruction.

### ENGINEERING LABORATORIES

The *cement laboratory* of the department of civil engineering occupies rooms in the basement of Engineering Hall.

The *electrical engineering laboratory* occupies space on three floors of the Mechanical and Electrical Engineering Laboratory.

The *mechanical engineering laboratory* occupies the rear wing of the Mechanical and Electrical Engineering Laboratory, but will soon be transferred to a new building.

The *hydraulic laboratory* and the *materials testing laboratory* occupy the Laboratory of Applied Mechanics.

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\* For a more detailed account of these laboratories, see under the appropriate College.

## SPECIAL LABORATORIES FOR RESEARCH

The *chemical laboratory of the Agricultural Experiment Station* and the *student laboratory* for the study of fertility are situated on the third floor of the Agricultural Building, as are also the *physical* and *bacteriological laboratories* for the examination of soils.

The *materials and hydraulic laboratories* occupy the new Laboratory of Applied Mechanics.

The laboratory rooms of the *State Laboratory of Natural History* are in Natural History Hall.

A *Biological Station*, equipped for field and experimental work in aquatic biology, is maintained on the Illinois River by the State Laboratory of Natural History. It has its separate staff, but is open to students of the University at all times, on application, and during the summer months to special students not connected with the University.

A *laboratory for sanitary water analysis* has been equipped with all necessary appliances, and chemical investigation of the water supplies of the state is carried on.

A *laboratory of economic geology*, for the investigation of clays, lime and cement-making materials, building stones, road metal, and all other mineral substances of economic value, has been equipped with the necessary appliances for such investigations.

## COLLECTIONS

## AGRICULTURAL

The various agricultural departments maintain collections illustrative of their work, prominent among which are those showing typical specimens of standard varieties of corn, wax models of fruit and vegetables, an extensive horticultural herbarium, specimens of many breeds of live stock, a large collection of farm machinery, and exhibits of negatives and samples showing progress of certain investigations, as with fruit and with corn.

## BOTANICAL

The *herbarium* contains about 50,000 mounted specimens of plants. The flora of North America is fairly well represented, the collection of species of flowering plants indigenous to Illinois is particularly complete, and a considerable collection of foreign species has been made. The collections of fungi amount to 32,000 named specimens and include a full set of those most injurious to other plants, causing rusts, smuts, moulds, etc. There are specimens of wood from 200 species of native trees and shrubs, which well illustrate the varieties of native wood.

Plaster casts represent fruits of many of the leading varieties as well as interesting specimens of morphology, showing peculiarities of growth, effects of cross-fertilization, etc.

## ENGINEERING

The following departments of the College of Engineering have made extensive and valuable collections, which are placed in rooms in Engineering Hall.

## ARCHITECTURE

A large number of specimens of stone, bricks, terra cotta, sanitary fixtures, casts of moldings and of ornament have been accumulated, together with some excellent specimens of industrial arts, models of structures, working drawings of important buildings, 4,500 lantern slides, 20,000 plates and photographs, and an excellent working library, a large classified collection of plates from architectural journals.

## CIVIL ENGINEERING

The civil engineering department has a large room containing samples of iron, steel, wood, brick, and stone; materials for roads and pavements; models of arches and trusses, one of the latter being full-sized details of an actual modern railroad bridge. The department also possesses a very large collection of photographs and blue-print work-

ing drawings of bridges, metal skeleton buildings, masonry structures, and standard railroad construction.

#### ELECTRICAL ENGINEERING

The department has a collection of samples illustrating standard practice in the industrial applications of electricity. There is also a rapidly growing collection of lantern slides, photographs, blue-prints, drawings, pamphlets, and other engineering data.

#### MECHANICAL ENGINEERING

This department has among other things a partial set of Reuleaux models, together with models of valve gears, sections of steam pumps, injectors, valves, skeleton steam and water gauges, standard packings, steam-pipe coverings, and drop forgings. There are also fine examples of castings, perforated metal, defective boiler plates, and sets of drills, with numerous samples of oil, iron, and steel. A large number of working drawings from leading firms and from the United States Navy Department forms a valuable addition to the above collections.

#### GEOLOGICAL

*Lithology* is represented by type collections of rocks (9,000 specimens), arranged to illustrate Rosenbusch; from Voigt and Hochgesang, L. Eger, and A. Kranz; a type collection from Ward; 1,000 thin sections of rocks and minerals; a large number of ornamental building stones; a stratigraphic collection to illustrate Illinois geology, and a collection of Illinois soils (104).

The *mineralogical* collection is especially rich in rock-forming minerals, ores, and materials of economic value. It contains over 12,000 specimens carefully selected to meet the wants of the student, and 575 crystal models.

The *paleontological* collection (49,000 specimens) contains representative fossils from the entire geologic series, but is especially rich in paleozoic forms. It embraces the

private collections of A. H. Worthen (including 742 type specimens); Tyler McWhorter; Mr. Hertzner; 200 thin sections of corals; the Ward collection of casts, and a considerable number of special collections representing the fauna and flora of particular groups.

#### LIBRARY ECONOMY

A collection of books and pamphlets on library science, of library reports and catalogs, of mounted samples showing methods of administration in all departments, and of labor-saving devices and fittings has been made, and is arranged by the Dewey Decimal classification in the Library School seminary room.

#### PEDAGOGICAL

In the rooms of the department of education in University Hall is a considerable collection of illustrative material from the manual training departments of various schools; photographs of school buildings, drawings and constructive work by pupils in the public schools, and the nucleus of a representative collection of apparatus for the school laboratory.

#### ZOOLOGICAL

The *soölogical* collections have been specially selected and prepared to illustrate the courses of study in natural history, and to present a synoptical view of the zoölogy of the state.

The mounted mammals comprise an unusually large and instructive collection of the ruminants of our country, including male and female moose, elk, bison, deer, antelope, etc., and also several quadrumana, large carnivora and fur-bearing animals, numerous rodents, good representative marsupials, cetaceans, edentates, and monotremes. Fifty-nine species of this class are represented by one hundred and one specimens and all the others, excepting the Sirenia, are represented by mounted skeletons. There is also a series

of dissections in alcohol, illustrating the comparative anatomy of the group.

The collection of mounted birds includes representatives of all the orders and families of North America, together with a number of characteristic tropical, Bornean, and New Zealand forms. The collection is practically complete for Illinois species. There is also a fine collection of the nests and eggs of Illinois birds. A series of several hundred unmounted skins is available for the practical study of species, and the internal anatomy is shown in alcoholic dissections, and in mounted skeletons of all the orders.

The cold-blooded vertebrates are represented by a series of mounted skins of the larger species, both terrestrial and marine; mounted skeletons of typical representatives of the principal groups; alcoholic specimens, both entire and dissected, and casts. The alcoholics include series of the reptiles, amphibians, and fishes, the latter comprising about 300 species. The dissections illustrate the internal anatomy of the principal groups. The casts represent about seventy-five species, nearly all fishes.

The Mollusca are illustrated by alcoholic specimens of all classes and orders, and dissections showing the internal anatomy of typical forms. There are several thousand shells belonging to 1,700 species. The collection of Illinois shells is fair but incomplete.

The collection of insects has been greatly extended and enriched by the Bolter Collection, donated to the University by the executors of the estate of the late Andreas Bolter, of Chicago, which now contains over 16,000 species, represented by about 120,000 specimens, named, labeled, and systematically arranged.

The lower invertebrates are represented by several hundred dried specimens and alcoholics, and by a large series of the famous Blaschka glass models.

The embryology of vertebrates and invertebrates is illustrated by several sets of Ziegler wax models, and numerous series of slides, sections, and other preparations.

In addition to the above, the extensive collections of the State Laboratory of Natural History are available for illustrative purposes, as well as for original investigation by advanced students.

### ART GALLERY

The University Art Gallery was the gift of citizens of Champaign and Urbana. It occupies a room in the basement of the Library Building, and furnishes an excellent collection of models for students of art. In sculpture it embraces thirteen full-size casts of celebrated statues, forty statues of reduced size, and a large number of busts and bas-reliefs, making in all over 400 pieces. It includes also hundreds of large autotypes, photographs, and fine engravings, representing many of the great masterpieces of painting of nearly all the modern schools, and a gallery of historical portraits, mostly large French lithographs, copied from the great national portrait galleries of France.

Other collections of special value to art students embrace a large number of casts of ornament from the Alhambra and other Spanish buildings, presented by the Spanish government; a set of casts from Germany, illustrating German renaissance ornament; a series of art works from the Columbian Exposition; large numbers of miscellaneous casts, models, prints, and drawings, such as are usually found in the best art schools, and a model in plaster and a complete set of drawings of a competitive design by Henry Lord Gay for a monument to be erected in Rome, commemorative of Victor Emmanuel, first king of Italy.

### LIBRARIES

The general University library, the library of the State Laboratory of Natural History, that of the Agricultural Experiment Station, and that of the College of Law are all at the University in Urbana. The libraries of the College of Medicine and the Schools of Pharmacy and Dentistry are in Chicago.



The general University library, including the Agricultural Experiment Station library, contains 63,724 volumes and 14,512 pamphlets. The reading room contains 775 periodicals. The library of the State Laboratory of Natural History contains 5,350 volumes and 15,850 pamphlets. The Library of the College of Law contains the Federal and State Reports, the leading text-books, and a line of leading periodicals. The department of education has made a special collection of about 1,500 books and 3,000 pamphlets, which are kept in the rooms of the department in University Hall. This collection contains a very good assortment of modern text-books, and copies of the courses of study of nearly all the large city school systems.

The libraries of the College of Medicine and of the Schools of Pharmacy and Dentistry are described further on in the catalog, in connection with these institutions.

The general library at the University is open daily, except Sunday, from 8 a. m. until 5 p. m., and from 6:30 p. m. until 9 p. m. on Mondays, Tuesdays, Wednesdays, and Thursdays. The reading rooms are open from 8 a. m. until 9 p. m. on Mondays, Tuesdays, Wednesdays, and Thursdays, and until 5 p. m. Fridays and Saturdays.

The Public Library of the City of Champaign contains the valuable library of western history collected by Edward G. Mason, Esq., long President of the Chicago Historical Society. The collection is thus made accessible to University students.

## ADMISSION

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Applicants for admission to the freshman class must be at least sixteen years of age.

Entrance may be made at any time, provided the candidate is competent to take up the work of the classes then in progress; but it is better to begin upon the first collegiate day in September.

Admission to the freshman class of the University may be obtained in one of three ways: (a) by certificate from a fully accredited high school; (b) by examination; (c) by transfer of credits from some other college or university.

### ADMISSION BY CERTIFICATE FROM ACCREDITED HIGH SCHOOLS

The University employs a high school visitor, whose business is to inspect the high schools of the state. The University bears the expense of such inspection, but does not send the visitor to any school not already accredited until a request is made for such visit, together with a report on the work of the school which shows that its course of study is such as to merit the attention of the University. After inspecting a school the visitor reports upon it to the Council of Administration of the University, and upon approval the school is added to the list of accredited schools. Students coming to the University from an accredited school are excused from entrance examinations in those subjects which they have pursued there satisfactorily and which are accepted for admission to the University. The University accredits all work which is sufficiently well done. The

schools in the list below are therefore not all accredited for the same amount of work, nor for the same subjects.

In all subjects required for admission to the University, other than those for which his school is accredited, the candidate for admission must pass an examination or take the work in the Preparatory School of the University.

Candidates for admission from accredited schools must file with the Registrar, upon entrance, a certificate of graduation and a certified list of the preparatory studies for which they received credit in the high school. Blanks for these certificates should be obtained from the Registrar in advance and forwarded to him for approval before registration days.

#### LIST OF ACCREDITED SCHOOLS

The following high schools, having all the prescribed credits, and enough others to make up the total number (40) of required credits, are in the list of fully accredited schools:

SCHOOL	SUPERINTENDENT	PRINCIPAL
Aledo	Fred N. Taylor	Mollie P. Taylor
Alton	R. A. Haight	J. E. Turner
Amboy	C. H. Ferguson	Harold James
Arcola	A. F. Lyle	Mary Ewing
Atlanta	Anthony Middleton	Mary Neff
Aurora (East)	C. M. Bardwell	W. F. Geiger
Aurora (West)	A. V. Greenman	Claude P. Briggs
Beardstown	Joseph Hutton	Elva J. Saunders
Belleville	George H. Busick	H. W. Brua
Belvidere (North)	A. J. Snyder	Flora Fellows
Belvidere (South)	C. H. LeVitt	Mrs. C. W. Bartine
Bement	Arthur Verner	George S. Wilson
Bloomington	J. K. Stableton	Edwin L. Boyer
Blue Island	(Township High School)	J. E. Lemon
Burlington, Ia.	Francis M. Fultz	Maurice Ricker
Bushnell	W. H. H. Miller	W. H. H. Miller
Cairo	Taylor C. Clendenen	Clyde Slone
Cambridge	Ed. G. Maul	Ed. G. Maul
Canton	C. S. Aldrich	J. H. Browning
Carlinville	J. E. Wooters	Margaret Hubbard
Carlyle	John W. Fisher	M. N. Todd
Carrollton	A. B. Carroll	D. H. Welis
Carthage	M. Andrews	Emily C. Pennock
Carthage College Academy		W. K. Hill

SCHOOL	SUPERINTENDENT	PRINCIPAL
Centralia	(Township High School)	H. S. Elliott
Champaign	Joseph Carter	Lottie Switzer
Charleston	DeWitt Elwood	A. H. Washburn
Chenoa	E. W. Davis	A. Agnes Dillon
Chicago—		
Austin	E. G. Cooley	Geo. H. Rockwood
Calumet	"	Avon S. Hall
Englewood	"	James E. Armstrong
English High and Manual Training	"	Albert R. Robinson
Hyde Park	"	Charles W. French
Jefferson	"	Charles A. Cook
Lake	"	Edward T. Stearns
Lake View	"	Benjamin F. Buck
McKinley	"	George N. Clayberg
Marshall	"	Louis J. Block
Medill	"	Edward C. Rosseter
Northwest Division	"	Franklin P. Fisk
South Chicago	"	Charles I. Parker
South Division	"	Spencer R. Smith
Waller	"	Oliver S. Westcott
Chicago Heights	(Township High School)	Arthur Reynolds
Chicago Manual Training	H. H. Belfield, Director	
Clinton	E. B. Bentley	Martha Hunt
Clinton, Ia.	O. P. Bostwick	J. S. McGowan
Clyde	(Township High School)	H. V. Church
Covington, Ind.	H. S. Kaufman	S. H. Hall
Danville	L. H. Griffith	A. D. Martin
Davenport, Ia.	J. B. Young	W. D. Wells
Decatur	E. A. Gastman	S. W. Ehrman
De Kalb	(Township High School)	Frederick Giles
Delavan	E. A. Cross	C. D. Garlough
Dixon (North)	H. V. Baldwin	Mary Burd
Dixon	Charles W. Groves	B. F. Bullard
Downer's Grove	O. M. Searles	Jean Parker
Dubuque, Ia.	F. T. Oldt	F. L. Smart
DuQuoin	C. W. Houk	M. C. Murray
Dwight	R. C. Rennick	Margaret Lampe
Earlville	G. V. Clum	John Clum
East St. Louis	John Richeson	C. L. Manners
Elgin	M. A. Whitney	E. J. Kelsey
Elgin Academy		Geo. Newton Sleight
Elmhurst Evangelical	Proseminar	D. Irion, President
Elmwood	C. S. Stewart	C. S. Stewart
El Paso (West)	H. E. Waits	H. E. Waits
Eureka	Wm. Hawks	Lucy Edmunds
Evanston	(Township High School)	Henry L. Boltwood
Fairbury	E. C. Greene	Myrtle F. Ballard
Farmer City	C. C. Covey	Edna Hays
Freeport	R. S. Page	S. E. Raines

SCHOOL	SUPERINTENDENT	PRINCIPAL
Galena	Phil Clark	Clark Emory
Galesburg	W. L. Steele	F. D. Thompson
Galva	Fred U. White	Josephine Coolidge
Geneseo	A. W. Hussey	Henry H. Frost
Geneva	Emelyn Gardner	Elizabeth Moore
Gibson City	A. P. Johnson	Margaret Nicholson
Gilman	F. A. Gilbreath	Henrietta Kortkamp
Girard	Heywood Coffield	Howard De Pew
Greenville	E. B. Brooks	R. A. White
Griggsville	W. H. D. Meier	Mary E. Renich
Harvard	R. G. Jones	Mrs. R. G. Jones
Harvey	(Township High School)	J. E. Cable
Havana	J. R. Sparks	Mrs. Sara E. Pierce
Henry	Henry Tupper	Mary T. Smeltzly
Hillsboro	Samuel T. Robinson	William S. Harris
Hinsdale	H. J. Jokisch	Mary McNair
Hoopeston	S. A. D. Harry	W. P. Jenkins
Illinois Women's College (Jacksonville)		Jos. R. Harker, Pres.
Jacksonville	E. E. Webster	L. A. Fulwider
Jerseyville	J. Pike	Edward B. Shafer
Joliet	(Township High School)	J. Stanley Brown
Kankakee	Franklin N. Tracy	Isaac E. Neff
Keokuk, Ia.	O. W. Weyer	Jesse Benjamin
Kewanee	A. C. Butler	John B. Cleveland
La Grange	(Township High School)	E. R. Cole
Lake Forest Academy		Wm. N. McKee
Lanark	C. A. Langworthy	Anna E. McIntosh
La Salle	(Township High School)	Thos. McCormick
Le Roy	S. K. McDowell	Elsa U. Nilson
Lewiston	B. C. Moore	Lena M. Huffman
Lexington	H. B. Fisher	Alberta Clark
Lincoln	B. E. Nelson	I. M. Allen
Litchfield	C. E. Richmond	A. A. Neisler
Lockport	C. O. Du Bois	C. O. Du Bois
Macomb	W. W. Earnest	Charles Lawyer
Mansfield	Leon Kinsey	Nellie Yunk
Marseilles	F. M. Kline	F. M. Kline
Martinsville	Norman Bennett	E. L. McCabe
Mason City	T. W. B. Everhart	Mrs. Emma Naylor
Mattoon	G. P. Randle	William Wallis
Mendota (East)	W. R. Foster	Jennie Anderson
Mendota (West)	J. W. Parkinson	Myra J. Howes
Metropolis	T. F. McCartney	S. A. Miller
Minonk	J. H. Grigg	Ethel Howells
Moline	Girard T. Smith	F. A. Thomas
Momence	R. E. Selby	Alice G. Kallandar
Monmouth	B. F. Armitage	W. L. Hanson
Monticello	J. T. Gale	Daisy D. Iddings
Morgan Park	(Township High School)	J. H. Heil
Morris	P. K. Cross	Jas. Hunter

SCHOOL	SUPERINTENDENT	PRINCIPAL
Mount Carmel	W. S. Booth	Kate Marsh
Mount Carroll	J. F. Casebeer	W. I. Travis
Mount Morris College (Preparatory)		J. G. Royer, Pres.
Mount Pulaski	G. B. Coffman	Carl Waldron
Mount Vernon	E. E. Van Cleve	W. L. Soler
Murphysboro	(Township High School)	Ellis H. Rogers
New Trier Township High School (Kenilworth)		Edw. Manley
Nokomis	Harry C. Miller	Charlotte Holmes
Normal	E. A. Fritter	W. W. Lewton
North Park College (Chicago)		D. Nyvall, Pres.
Oak Park	(Township High School)	John Calvin Hanua
Olney	George D. Wham	James W. Barrow
Onarga	J. H. Whitten	Laura McChesney
Oregon	E. S. Hady	Adalaide Steele
Ottawa	(Township High School)	J. O. Leslie
Pana	William Miner	W. D. Butcher
Paris	H. W. Monical	J. H. Whitely
Paxton	O. J. Bainum	Clarence Bonnell
Pekin	O. A. Schotts	Asa Hielt
Peoria	N. C. Dougherty	Alf. W. Beasley
Petersburg	G. W. L. Meeker	W. D. Higdon
Pittsfield	Wm. Calhoun	Lillian Barton
Plano	J. R. Freebern	Grace Garnett
Polo	F. D. Haddock	Lillian Jose
Pontiac	(Township High School)	C. E. De Butts
Princeton	(Township High School)	D. O. Barto
Quincy	D. B. Rawlins	John E. Pearson
Riverside	A. F. Ames	Edward L. Hardy
Rochelle	C. E. Joiner	William Otto
Rock Falls	Theodore Haney	Etta Grunewald
Rockford	P. R. Walker	B. D. Parker
Rock Island	H. B. Hayden	H. E. Brown
Roodhouse	Harvey T. White	E. W. Davis
Roseville	(Township High School)	B. M. Hendricks
Rossville	I. A. Smothers	W. E. Davis
Rushville	H. H. Edmunds	J. G. Maroe
St. Louis, Mo.	F. Louis Soldan	W. J. S. Bryan
St. Mary's Academy (Joliet)		Rev. H. L. Hausser
Sandwich	W. W. Woodbury	O. M. Edwards
Savanna	(Township High School)	W. S. Wallace
Sheffield	J. A. Taylor	J. A. Taylor
Shelbyville	A. C. Cohagan	Nora Simmons
Sheldon	J. J. Ferguson	W. C. Chapman
Southern Illinois State Normal (Carbondale)		High School Dept.
Sparta	S. B. Hood	L. J. Sexton
Springfield	J. H. Collins	L. M. Castle
Sterling	(Township High School)	E. T. Austin
Streator	(Township High School)	R. R. Upton
Sugar Grove	E. M. Harris	E. M. Harris
Sullivan	Hugh A. Bone	W. F. Cavins

SCHOOL	SUPERINTENDENT	PRINCIPAL
Sycamore	John N. Adee	Sarah Robinson
Taylorville	(Township High School)	Wm. E. Andrews
Terre Haute, Ind.	William Wiley	Chas. Meek
Toulon Academy		G. H. Pollard
Tuscola	J. P. Gilbert	F. W. Schacht
Urbana	J. W. Hays	John O. Laugman
Vienna	I. C. Reubelt	Nat Boomer
Virginia	M. J. Alkire	Kate Bellersheim
Washington	J. H. Heinzelman	L. I. Knight
Watseka	E. J. Blake	Oliver Zoll
Waukegan	Miriam Besley	W. J. Stebbins
Western Military Academy (Upper Alton)		A. M. Jackson
Wheaton	J. B. Russell	Ella M. Gregg
Whitehall	F. M. Beaty	Etta M. Hunter
Wilmington	Sam Houston	S. E. Houston
Woodstock	C. W. Hart	L. H. Cutting

Following are the partially accredited schools:

Anna	E. E. McLaughlin	W. P. Miller
Ashland	C. E. Barker	Stella Morgan
Astoria	U. S. Collins	Caroline A. Wakeman
Augusta	S. Douglas Faris	John A. Mead
Barry	E. H. Calhoun	Mary E. Goff
Biggsville	(Township High School)	E. C. Cavins
Byron	A. R. Mize	A. R. Mize
Camp Point	S. S. Simpson	Margaret Henry
Carmi	R. W. Jennings	H. A. Echols
Casey	J. D. McMeen	Jasper Bennett
Cerro Gordo	F. S. Betz	Annie Mitchell
Chatsworth	G. W. Courts	Maude Fairfield
Chester	J. M. Dickson	D. O. Jones
Chillicothe	H. M. Anderson	Kate Scarry
Chrisman	J. C. Arnold	J. C. Arnold
Colfax	Mary Hotsenpeller	Electa Ransom
Dundee	Julia M. Gay	Julia M. Gay
Edwardsville	T. M. Birney	Charles T. Ford
Effingham	J. D. Foucht	Margaret Meneeley
El Paso (East)	J. L. Pricer	J. L. Pricer
Fairfield	A. E. Gilpin	A. E. Gilpin
Farmington	Lyman B. Mansell	Gertrude Neal
Flora	J. M. Stephens	Genevieve Jepson
Grand Prairie Seminary (Onarga)		Frank G. Barnes
Greenfield	H. G. Russell	Helen G. Russell
Greenview	Robert C. Hiatt	Esther Theil
Hebron	J. W. King	Katherine Robinson
Highland	C. L. Dietz	Mamie E. Graff
Highland Park	(Township High School)	R. L. Sandwick
Knoxville	W. F. Jones	Emma Mowrey
Lacon	D. B. Burrows	Dorothy Stonebraker
Lena	Jay R. Inman	Sue L. Wilson

SCHOOL	SUPERINTENDENT	PRINCIPAL
McLeansboro	W. C. Fairweather	Silas Echols
Marengo	G. N. Snapp	Orma Butler
Marion	J. W. Asbury	W. A. Cook
Maroa	Geo. S. Morris	Eugenie Shinn
Marshall	(Township High School)	B. A. Sweet
Moweaqua	Wm. McGinley	Wm. Harris
Nashville	F. C. Prowdley	J. C. Chapin
Newman	E. J. Vines	Helen Booker
Newton	Charles Bevis	R. D. Wyatt
Odell	H. W. Carrithers	Catherine Kinnison
Palatine	F. E. Newton	F. E. Newton
Pawpaw	R. B. Kleinsmid	J. B. Whelan
Pecatonica	Geo. A. Collins	Geo. A. Collins
Princeville	W. M. Beale	W. M. Beale
Robinson	O. R. Hedden	G. H. Henry
St. Charles	W. R. Hatfield	H. Lavinia Moore
Salem	S. J. Curlee	Ella Spencer
Tiskilwa	A. M. Blood	A. M. Blood
Vandalia	W. H. Pyle	H. A. Echols
Vermillion Academy	(Vermillion Grove)	W. O. Trueblood
Virden	Josiah Main	Flora Culp
Warren	Mark Moffitt	Olivette M. Buser
Warsaw	L. Fairfax	George Perrin
Waverly	J. C. Walters	Fred Dennis
Wenona	Ida M. Wright	H. J. Bassler
Winchester	B. F. Parr	B. F. Parr
Wyoming (South)	J. B. Wallace	Miss Dixon
Yorkville	R. W. Jones	Elizabeth Kaye

### ADMISSION BY EXAMINATION

Examinations of candidates for admission to the University are held at the University in September (see program, p. 69). Each candidate must be in attendance during the whole period of the examinations.

The scholarship examinations,\* held each year on the first Saturday in June, in the several counties of the state, afford an opportunity to pass a part of the entrance examinations before coming to the University.

The subjects upon which the entrance examinations are held are described below.

When text-books are named it is merely to aid in explaining the requirements. Equivalentents are accepted.

In all cases 40† credits are required, the term credit

\* See State Scholarships, p. 298.

† Beginning September, 1905, 42 credits will be required.



meaning the amount of work represented by the continuous pursuit of one subject, with daily recitations, through one of the three terms of the high school year; or, in other words, the work of sixty recitation periods of forty minutes each, or the equivalent in laboratory or other practice. Of these 40 credits, 17 must be obtained by all candidates in the subjects, and according to the valuation, stated in the prescribed list given below. The remainder of the 40 may be made up by offerings in any of the subjects in the elective list given below, with the following restrictions and provisions:

1. No offering will be accepted in any one of these elective subjects unless at least equal in quantity to the minimum specified in the table. For example: Astronomy is listed for from 1 to 1½ credits. Nothing less than one term's work, that is, one credit, will be accepted, therefore, in that subject.

2. Those who wish to enter upon courses leading to the degree of bachelor of arts in *Literature and Arts* must offer three credits in history and nine\* credits in foreign language, in addition to the 17 credits prescribed for all candidates. The candidate must then make up the remainder of the required credits by offerings from the elective list. Those who wish to pursue the study of Latin in the University must offer at least nine credits in Latin.

3. Those who wish to enter upon courses leading to the degree of bachelor of arts in *science*, or of bachelor of science in *science, engineering, or agriculture*, must offer in addition to the seventeen credits prescribed for all candidates, six credits in science. They must then make up the remainder of the necessary credits with electives; but engineering students must offer solid and spherical geometry.

4. Those who wish to enter the course leading to the degree of bachelor of laws must offer, in addition to the seventeen credits prescribed for all candidates, three credits in English and American History and any subjects chosen

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\* At least six of these must be in the same language.

from the elective list sufficient to make up the number of credits required for entrance.

5. Those who wish to enter upon a course leading to the degree of bachelor of music must offer, in addition to the 17 credits prescribed for all candidates, three credits in history, nine\* in foreign language, and six in music. The remainder of the required forty credits must then be made up with subjects from the elective list. The work which is accepted for the six credits in music is described in courses 6, 11, 14, on pages 271-273, but these credits may be obtained only by examination at the University.

#### SUBJECTS ACCEPTED FOR ADMISSION, WITH CREDITS

##### Prescribed for all Candidates

Algebra .....	5 credits
English Composition .....	3 credits
English Literature ... ..	6 credits
Geometry, Plane .....	3 credits

##### Elective

Astronomy .....	1 to 1½ credits
Botany .....	1½ to 3 credits
Chemistry .....	2 to 3 credits
Civics .....	1 to 3 credits
Drawing .....	1 to 3 credits
French .....	3 to 9 credits
Geology .....	1½ to 3 credits
Geometry, Solid and Spherical.....	1 credit
German .....	3 to 12 credits
Greek .....	3 to 7 credits
History .....	3 to 9 credits
Latin .....	3 to 12 credits
Physics .....	3 credits
Physiography .....	1½ to 3 credits
Physiology .....	1 to 3 credits
Zoölogy .....	1½ to 3 credits

#### DESCRIPTION OF SUBJECTS ACCEPTED FOR ADMISSION

The amount of work in each subject which, in the judgment of the University authorities, corresponds to the mini-

\*At least six of these must be in the same language.

imum number of credits assigned is shown by the description of subjects below :

1. ALGEBRA.—Fundamental operations, factoring, fractions, simple equations, involution, evolution, radicals, quadratic equations and equations reducible to the quadratic form, surds, theory of exponents, and the analysis and solution of problems involving these.

2. ASTRONOMY.—To obtain a single credit for entrance in astronomy, the student must pass an examination covering as much text-book work as is contained in any good text. For 1½ credits, the entrance requirement implies, in addition to the above, some degree of practical familiarity with the geography of the heavens, with the various celestial motions, and with the positions of some of the more conspicuous naked-eye heavenly bodies.

3. BOTANY.—A familiar acquaintance is required with the general structure of plants, and of the principal organs and their functions, derived to a considerable extent from a study of the objects; also a general knowledge of the main group of plants, and the ability to classify and name the more common species. Laboratory note-books and herbarium collections should be presented.

4. CHEMISTRY.—The instruction must include both text-book and laboratory work. The work should be so arranged that at least one-half of the time shall be given to the laboratory. The course, as it is given in the best high schools in two terms or three terms, respectively, will satisfy the requirements of the University for the two credits or three credits for admission. The laboratory notes, bearing the teacher's indorsement, must be presented in evidence of the actual laboratory work accomplished. Candidates for admission may be required to demonstrate their ability by laboratory tests.

5. CIVICS.—Such amount of study on the United States constitution, its history and interpretation, as is indicated by any of the usual high-school text-books on civil government, is regarded as sufficient for one term. The work may advantageously be combined with the elements of political economy or the industrial history of the country.

6. COMPOSITION AND RHETORIC.—Correct spelling, capitalization, punctuation, paragraphing, idiom, and definition; the elements of rhetoric. The candidate will be required to write two paragraphs of about one hundred and fifty words each to test his ability to use the English language.

7. DRAWING.—Free-hand or mathematical drawing, or both. Drawing-books or plates must be submitted. The number of credits allowed depends on the quantity and quality of the work submitted.

8. ENGLISH LITERATURE.—(a) Each candidate is expected to have read certain assigned literary masterpieces, and will be subjected to such an examination as will determine whether or not he has done so. The books assigned for the next three years are as follows:

1904.—The Sir Roger de Coverley Papers; Carlyle's Essay on Burns; Coleridge's Ancient Mariner; George Eliot's Silas Marner; Goldsmith's Vicar of Wakefield; Lowell's Vision of Sir Launfal; Scott's Ivanhoe; Shakspeare's Merchant of Venice; Shakspeare's Julius Cæsar; Tennyson's Princess.

1905 and 1906.—The same as 1904.

(b) In addition to the above the candidate will be required to present a careful study of the history of either English or American Literature.

(c) The candidate will be examined on the form and substance of certain books in addition to those named under (a). For 1904, 1905 and 1906 the books will be selected from the list below. The examination will be of such a character as to require a minute study of each of the works named, in order to pass it successfully. The list is:

Shakspeare's Macbeth; Milton's L'Allegro, Il Penseroso, Comus, and Lycidas; Burke's Speech on Conciliation with America; Macaulay's Essays on Milton and Addison.

Two years of high school work, with five recitations a week, are necessary for the above preparation.

9. FRENCH.—*One year's work.*—The candidate must have a thorough knowledge of elementary grammar and the irregular verbs; must be able to pronounce correctly, and to translate simple spoken French phrases. He must have read some 300 pages of easy prose, including one modern comedy, and must be able to translate ordinary French prose at sight.

*Two years' work.*—In addition to the above, the candidate must show proficiency in advanced grammar, the essentials of syntax, and elementary composition. The reading of not less than 400 pages of standard authors, including two plays of Molière, is required.

*Three years' work.*—In addition to what has already been described, the candidate must have had further work in composition.

He must further have read not less than 500 pages of standard authors, including Molière, La Fontaine, and Hugo. Some acquaintance with modern lyrics is necessary.

10. GEOLOGY.—Familiarity with the principles of dynamic and structural geology, and some acquaintance with the facts of historical geology as presented in Scott's Introduction to, or Brigham's Text-book of Geology, or a real equivalent, together with at least an equal amount of time spent in laboratory and field work, will be required for  $1\frac{1}{2}$  credits.

The laboratory work should follow one or more of the lines indicated below, and note books should be presented showing the character and the amount of work done.

1. Studies of natural phenomena, occurring in the neighborhood, which illustrate the principles of dynamic geology. Each study should include a careful drawing of the object, and a written description of the way in which it was produced.

2. Studies of well-marked types of crystalline, metamorphic and sedimentary rocks, which will enable the student to recognize each type and state clearly the conditions under which it was formed.

3. Studies of minerals of economic value, including the characteristics of each, its origin, and the uses to which it is put.

4. Studies of the types of soil occurring in the neighborhood, including the origin of each and the cause of differences in appearance and fertility.

11. GEOMETRY.—(a) *Plane Geometry*. Special emphasis is placed upon the ability to use propositions in the solution of original numerical exercises and of supplementary theorems.

(b) *Solid and Spherical Geometry*. Applications to the solutions of original exercises are emphasized.

12. GERMAN.—*One year's work*.—Elementary grammar. Besides the work in grammar, the student should read not less than 150 pages of easy narrative, or descriptive prose.

*Two years' work*.—In addition to the work outlined under the one year's requirement, the pupil should know the syntax of cases, uses of the subjunctive and infinitive, complex sentence structure, uses of modal auxiliaries and of participial constructions. As an additional reading requirement, from 250 to 300 pages should be translated. Prose composition.

*Three years' work*.—The third year's study should aim to secure an easy reading knowledge of the language. Standard prose of

the grade represented by Freytag, Dahn or Keller, not less than 100 pages, should be read, together with selections from the easier classic dramas. Schiller's *Wilhelm Tell*, or *Jungfrau von Orleans*, and Lessing's *Minna von Barnhelm* are especially recommended. Prose composition.

13. GREEK.—To obtain three credits, the exercises in any of the beginning books, and one book of the *Anabasis*, or its equivalent, must be offered. For six credits, two books of the *Anabasis* and three of Homer, or their equivalents, additional to the above, must be presented, together with an amount of Greek prose composition equal to one exercise a week for one year.

14. HISTORY.—No subjects are definitely prescribed in this department, but the following are recommended as best adapted to the high school program:

(1) For a course of one year only, the history of England and of the United States.

(2) For a course of two years, the following subjects, or any two of them: The History of Greece and Rome, the History of England, the History of the United States.

(3) For a course of three years, one year in each of the three subjects named in (2).

For the present, *Elementary* examinations will be offered in the following subjects: (a) The History of England and the United States, (b) the History of Greece and Rome, (c) General European History. *Advanced* examinations will be given in the following subjects: (a) The History of England, (b) the History of the United States, (c) the History of England and of the United States. The examination in each of these subjects is intended to cover one full year of high school work.

The statement of requirements in each subject implies the use of a substantial text-book, some elementary training in the use of reference books, and some instruction in historical geography. For suggestions as to method, see the report of the *Committee of Seven* on *The Study of History in Schools*.

15. LATIN.—*First year's work*.—Such knowledge of inflections and syntax as is given in any good preparatory Latin book, together with the ability to read simple fables and stories.

*Second year's work*.—Four books of Cæsar's Gallic War, or its equivalent in Latin of equal difficulty. The ability to write simple Latin based on the text.

*Third year's work*.—Six orations of Cicero. The ability to

write simple Latin based on the text. The simpler historical references and the fundamental facts of Latin syntax.

*Fourth year's work.*—The scansion of hexameter verse, six books of Vergil, with history and mythology.

16. PHYSICS.—One year's high school work covering the elements of physical science as presented in the best of the current high school text-books of physics. Laboratory practice in elementary quantitative experiments should accompany the text-book work. The candidate's laboratory note-book will be considered as part of the examination.

17. PHYSIOGRAPHY.—The amount and character of the work required for this credit may be seen by referring to the texts of Gilbert and Brigham, or Davis; the recitations must be supplemented by at least an equal amount of time devoted to laboratory work. The laboratory exercises should follow one or more lines such as are indicated below, each school selecting those which best fits its conditions. Each student should present a note-book showing exactly what he has done.

1. Studies in mathematical geography in which map and scale only are used. These should embrace such topics as length of a degree in longitude in various latitudes; length and breadth of continents, etc., in degrees and miles; relative latitude of places; distances between cities, etc., in degrees and miles; difference in length of parallels and meridians; problems in time; location of time belts, etc.

2. Studies of local topographic features which illustrate the various phases of stream work. Each study should include a drawing or topographic map of the object and a full, clear description of the way in which it was formed.

3. Studies of glacial deposits as shown in terminal and ground moraines, kames, eskers, etc.; distribution of dark and light colored soils; occurrence of lakes, ponds, gravel beds, clay banks, and water-bearing strips of sand and gravel.

4. Studies of stream work as shown on the topographic sheets which may be obtained from the United States Geological Survey at nominal cost.

5. Studies of the form, size, direction and rate of movement of high and low barometer areas, and the relation of these to direction of wind, character of cloud, distribution of heat, and amount of moisture in the air, as shown in the daily weather maps. Later these studies should lead to the making of weather maps from the

data furnished by the daily papers, and to local prediction of weather changes based on the student's own observations.

6. Studies of the climate of various countries compared with our own, the necessary data being derived from such topographic, rainfall, wind, current, and temperature maps as are found in Sydow-Wagner's or Longman's atlases.

18. **PHYSIOLOGY.**—For one credit are required the anatomy, histology, and physiology of the human body and the essentials of hygiene, taught with the aid of charts and models to the extent given in Martin's Human Body (Briefer Course). For more than one credit, the course must include practical laboratory work. The number of credits, beyond one, will be determined in each case according to the quantity and quality of the work.

19. **ZOOLOGY.**—The instruction must include laboratory work equivalent to four periods a week for a half year, besides the time required for text-book and recitation work. Note-books and drawings must be presented which shall show the character of work done and the types of animals studied. The drawings are to be made from the objects themselves and not copied from illustrations, and the notes are to be a record of the student's own observation on the animals examined. The amount of equipment and character of surroundings must, of course, determine the nature of the work done and the kind of animals studied, but in any case the student should have at least a fairly accurate knowledge of the external anatomy of each of eight or ten animals distributed among several of the larger divisions of the animal kingdom, and should know something of their life histories and of their more obvious adaptations to environment. It is recommended that especial attention be given to such facts as can be gained from a careful study of the living animal. The names of the largest divisions of the animal kingdom with their most important distinguishing characters and illustrative examples, selected when practical from familiar forms, ought also to be known.

#### PROGRAM OF EXAMINATIONS, SEPTEMBER 7-10, 1904

All persons who wish to enter the University in September, 1904, except those holding certificates of graduation from accredited schools and scholarship certificates, and those for whom a transfer of all entrance credits from some other college or university has already been approved, must



present themselves at the Registrar's office, Library Building, at 9 o'clock a. m., Wednesday, September 7th. At that time application for admission will be received, and applicants will be given all necessary directions as to examinations.

*(The examinations in 1905 will be held Sept. 13-16.)*

The program of examination is as follows:

Chemistry, 2 or 3 credits.....	Wednesday	9:50 a. m.
Geology, 1½ or 3 credits.....	Wednesday	9:50 a. m.
Astronomy, 1 or 1½ credits.....	Wednesday	11:10 a. m.
History, 3 or 6 credits.....	Wednesday	12:50 p. m.
Physiography, 1½ or 3 credits.....	Wednesday	3:20 p. m.
English Literature, 6 credits.....	Thursday	7:50 a. m.
English Composition, 3 credits.....	Thursday	10:20 a. m.
Latin, 3 or 6 credits.....	Thursday	12:50 p. m.
Physics, 3 credits.....	Thursday	3:50 p. m.
Algebra, 4 credits.....	Friday	7:50 a. m.
Civics, 1 to 3 credits.....	Friday	10:20 a. m.
Geometry, Plane, 3 credits.....	Friday	12:50 p. m.
Geometry, Solid and Spherical, 2 credits..	Friday	2:35 p. m.
Physiology, 1 to 3 credits.....	Friday	3:20 p. m.
German, 3 or 6 credits.....	Saturday	7:50 a. m.
French, 3 or 6 credits.....	Saturday	7:50 a. m.
German, 7 to 9 credits.....	Saturday	10:20 a. m.
French, 7 to 9 credits.....	Saturday	10:20 a. m.
Latin, 7 to 12 credits.....	Saturday	12:50 p. m.
Botany, 1½ to 3 credits.....	Saturday	12:50 p. m.
Zoölogy, 1½ to 3 credits.....	Saturday	3:20 p. m.

The time for examinations in Free Hand Drawing and in Manual Training will be arranged with candidates.

#### ADMISSION BY TRANSFER FROM OTHER COLLEGES AND UNIVERSITIES

A person who has entered another college or university of recognized standing will be admitted to this University upon presenting a certificate of honorable dismissal from the institution from which he comes and an official statement of the subjects upon which he was admitted to such institu-

tion, provided it appears that the subjects are those required here for admission by examination, or real equivalents. Candidates, to enter the University in this way, should submit such papers to the Registrar before the time of entrance, so that all doubtful points may be cleared up in advance.

### ADMISSION AS SPECIAL STUDENTS

Persons over twenty-one years of age, not candidates for a degree, may be admitted to classes, after satisfying the President, and the professor in charge of the department in which such classes are taught, that they possess the requisite information and ability to pursue profitably, as special students, the chosen subjects. Such students are not matriculated; they pay a tuition fee of seven dollars and a half a semester, in addition to the regular incidental fee of twelve dollars.

After successfully completing thirty semester hours of university work, a special student may receive such credits toward matriculation on account of practical experience in the line of his course as the head of the department and the dean of the college may recommend, and the President of the University may approve.

In the College of Agriculture special students may be received at sixteen years of age, subject to the same conditions as other special students, except that they may hold scholarships in agriculture (p. 299); but if under eighteen years of age, and unable to meet the requirements for admission to the freshman class (see pp. 54, 60), they must take half their work in the Academy.

### ADMISSION TO ADVANCED STANDING

After satisfying the entrance requirements for admission to the University, in some of the ways described, and after matriculating, the applicant for advanced standing may secure such standing either by examination or by transfer of credits from some other college or university.

1. *By Examination.*—Candidates for advanced standing, not from other colleges or universities, may secure such standing on examination. In the case of freshman students seeking advanced standing on the basis of their preparatory work, such standing shall be granted after satisfactory examination only, unless the applicants are from fully accredited schools. In that case a transfer of credits may be made as provided below.

2. *By Transfer of Credits.*—Credits from other colleges or universities may be accepted by the Faculty for advanced standing; but at least one year's work in residence at the University is required of all candidates for a bachelor's degree.

In all cases a certificate of honorable dismissal is required, together with a certified record of work done in the institution from which the applicant comes. These should be presented for approval some time before the student enters for work.

Upon approval of the faculty, freshmen may receive a limited amount of credit for advanced work done in fully accredited high schools.

## REGISTRATION

At the beginning of the first semester each student must present himself for registration within the time set for that purpose, before the formation of classes, and he must be present at the first exercise of each class he is to attend.

## EXAMINATIONS

Examinations are held as often as in the judgment of the instructor the necessities of the work require. Examinations are also given at the close of each semester, on the work of the semester, in all subjects except those whose character renders it unnecessary or impracticable.

A record is kept of each student's standing.

## SEMESTERS AND RECESS

The University year is divided into semesters, each covering eighteen weeks of instruction. There is a recess of two weeks at the Christmas holidays.

For dates of opening and closing, see Calendar, p 7.

## GRADUATION

In all cases credit for one hundred and thirty "semester hours" (see p. 169) is required for graduation. The candidate for a degree must complete all the subjects prescribed for graduation in his course, and when, in doing this, he does not gain the necessary credit of one hundred and thirty hours, he must make up the deficiency by electing other subjects.

The combinations of studies under which a student may graduate are too numerous to describe; they are given to some extent under the separate colleges and schools.

# ADMINISTRATION OF THE UNIVERSITY

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## GOVERNMENT

The government of the University is vested by the Trustees primarily in the President of the University, in the Senate, in the Council of Administration, and in the Deans.

The President is the executive head of the University.

The Dean of the Graduate School has general oversight of the instructional work of the University, and especial supervision of the graduate school. By order of the Board of Trustees he also fills the office of Vice-President.

The Dean of Undergraduates has general oversight of the undergraduate students.

The Dean of the Woman's Department is charged with general oversight of the young women of the University.

The Dean of each college is responsible for the enforcement of all University regulations within his college.

The Council of Administration is composed of the President, the Dean of the Graduate School, the Dean of Undergraduates, the Dean of the Woman's Department and the Deans of the separate colleges. It constitutes an advisory board to the President, *and has exclusive jurisdiction over all matters of discipline.*

The Council does not exercise general legislative functions; but when any matter arises which has not been provided for by common usage or by rule of the Senate and which cannot be conveniently laid over till the next meeting of the Senate, the Council may act upon the same according to its discretion.

The determination of the general internal policy of the University is in charge of the Senate.

The faculties of the different colleges and schools of the University are composed of the members of the corps of instruction of these colleges and schools, and have jurisdiction over all matters which pertain exclusively to these organizations, subject always to higher University authority.

### ORGANIZATION

For the purpose of more efficient administration, the University is divided into several colleges and schools. This division does not imply that the colleges and schools are educationally separate. They are interdependent, and together form a unit. In addition to the courses mentioned as given in each college and school, instruction in military science and physical training is provided. The organization is as follows:

- I. The College of Literature and Arts.
- II. The College of Engineering.
- III. The College of Science.
- IV. The College of Agriculture.
- V. The Graduate School.
- VI. The School of Library Science.
- VII. The School of Music.
- VIII. The College of Law.
- IX. The College of Medicine.
- X. The School of Pharmacy.
- XI. The School of Dentistry.

### THE COLLEGE OF LITERATURE AND ARTS

The College of Literature and Arts offers a wide range of subjects in philosophy and the arts, including:

1. The ancient classical languages.
2. English literature and language, including rhetoric.
3. The Romanic languages, including French, Italian, and Spanish.

4. The Germanic languages, including German, Scandinavian, and Danish.

5. The political and social sciences, including history, economics, sociology, anthropology, and science of government.

The work in economics is so developed and arranged that taken in combination with other subjects it furnishes

6. Courses of training for business.

7. Philosophical subjects, including philosophy, mathematics, psychology, education, and ethics.

8. Courses in Library Science, consisting of three years' College work, followed by the first year in the School of Library Science.

### THE COLLEGE OF ENGINEERING

The College of Engineering offers courses—

1. In Architecture.
2. In Architectural Engineering.
3. In Civil Engineering.
4. In Electrical Engineering.
5. In Mechanical Engineering.
6. In Municipal and Sanitary Engineering.
7. In Railway Engineering.

### THE COLLEGE OF SCIENCE

The College of Science offers courses in—

1. General Science.
2. Chemistry.
3. Education.
4. Household Science.
5. Library Science.
6. Mathematics.
7. Physics.
8. Studies Preliminary to Medicine.

### COLLEGE OF AGRICULTURE

The College of Agriculture offers courses in —

1. Agronomy.
2. Animal Husbandry.
3. Dairy Husbandry.

4. Horticulture.
5. Household Science.
6. Veterinary Science.

### THE GRADUATE SCHOOL

The Graduate School offers courses in twenty-seven distinct subjects, as follows: Agronomy, Animal Husbandry, Architecture, Botany, Chemistry, Civil Engineering, Economics, Education, Electrical Engineering, English Language and Literature, French, Geology, German, Greek, History, Horticulture, Household Science, Latin, Mathematics, Mechanical Engineering, Municipal and Sanitary Engineering, Philosophy, Physics, Physiology, Psychology, Thremmatology, and Zoölogy.

For further information see "General Description of Courses," beginning on page 169. The distinctively graduate courses are usually numbered 101, 102, etc., under each subject, but some of the courses open to undergraduates may also be taken for credit towards an advanced degree. See Graduate School, page 137.

### THE SCHOOL OF LIBRARY SCIENCE

The School of Library Science, or the State Library School, offers a course of study extending over five years, three of which are in either the College of Literature and Arts or the College of Science. The last two years are devoted to courses in Library Science in the Library School. The full course leads to the degree of bachelor of library science.

### THE SCHOOL OF MUSIC

The School of Music offers courses in vocal and instrumental music, leading to the degree of bachelor of music.

### THE COLLEGE OF LAW

The College of Law offers a course of study leading to the degree of bachelor of laws.



### THE COLLEGE OF MEDICINE

The College of Medicine offers a course of study leading to the degree of doctor of medicine.

### THE SCHOOL OF PHARMACY

The School of Pharmacy offers a course in all branches necessary to a complete scientific and practical knowledge of pharmacy, including pharmacy, chemistry, materia medica, botany, physics, and physiology. The course leads to the degree of graduate in pharmacy.

### THE COLLEGE OF DENTISTRY

The School of Dentistry offers a course leading to the degree of doctor of dental surgery.

# COLLEGE OF LITERATURE AND ARTS

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## AIMS AND SCOPE

The College of Literature and Arts includes those branches usually comprised in the department of liberal arts, with the exception of the natural sciences. The aim of the College is a double one: To furnish a liberal education, and to afford opportunity for specialization in art, literature and language, history, economics, mathematics, philosophy, psychology, pedagogy, political science and administration.

## REQUIREMENTS FOR GRADUATION

In order to graduate from the University in the College of Literature and Arts, the student must secure credit for 130 hours of study, including therein the prescribed military and physical training. Every student must take work aggregating at least eight hours of credit in each of the following groups of subjects, according to the conditions described below. The groups are:

I. English language and literature, including English and rhetoric.

II. Ancient and modern languages and literatures, including Greek, Latin, German, and Romanic languages.

III. Political science, including history, economics, and science of government.

IV. Mathematics and philosophy, including mathematics, education, philosophy and psychology.

V. Science, including astronomy, botany, chemistry, geology, physiology, physics, and zoölogy.

*Conditions under which students must make their choice:*

1. In his freshman year each student must select his course of study from at least three of the five groups mentioned above, and must include in his choice six hours of rhetoric (rhetoric I).

2. In Group II. the student is required to carry the language which he elects through at least the first university year of work. No credit is given for a part of the work of the first university year of any language.

3. In Group IV. a student who elects mathematics must take at least five hours of it, and is earnestly advised to take the subject through the year. If a student does not elect mathematics, his election in this group must include work in at least two of the other departments of the group. That is, if he does not take mathematics, he must take either philosophy and psychology, or philosophy and education, or education and psychology. With the exception of mathematics, no subject of this group is open to freshmen.

4. No credit is granted in any subject unless the student pursues it for the full time required in the shortest course offered in that subject. For example, if the student elects a course which yields two hours of credit for one semester, he must stay in the class during the semester in order to get any credit at all.

5. Every student must secure at least 24 hours of credit in some one department to be selected by him from the list of major subjects (see page 81). This subject shall be called his major.

6. Not more than 40 hours in any one department shall be counted for graduation, excepting when the student is writing a thesis. In this case he may count, in addition to the 40 hours, the hours of the seminar course in which he does his thesis work.

7. According to the general University regulations, theses must be written by students who are candidates for special honors. Students not candidates for special honors may also write theses, on the approval of the head of the department in which they are doing their major work.

#### ELECTIVES

A student may select his studies from as wide a range of subjects as he pleases, restricted only by the requirement that he shall take a minimum amount of work in each of the groups above mentioned, and secure 24 hours in some one.

The departments in which major work may be done are listed as major electives on page 81. If the student receives less than 24 hours' credit in one of these subjects, it is credited to him as minor work, as is also any subject not there listed, regardless of the time spent on it.

The elective minor courses open to the students of the College include subjects offered in the other colleges and schools of the University. The sciences are not an integral part of the work of the College of Literature and Arts, but they are so important a part of a liberal education that every student of the College is earnestly urged to extend his study of them as far as may be. Certain courses in the College of Engineering, in the College of Agriculture, in the School of Library Science, and in the College of Law, may also be counted for credit in the College of Literature and Arts. These are more particularly mentioned under "minor electives," on page 81.

Students in the business courses must choose their majors in economics. They must supplement the economics with the necessary work in science, materials of commerce, mechanical technology, language and law, and should follow closely the outline of the various courses given in full in the special circular on Courses of Training for Business.

## MAJOR ELECTIVES

Following are the subjects which may be elected as majors. Minor work may be elected from those not chosen as majors.

Economics.	Latin.
Education.	Library Science.
English.	Mathematics.
French.	Philosophy.
German.	Psychology.
Greek.	Rhetoric.
History.	Science of Government.
Household Science.	

## MINOR ELECTIVES

The necessary credits for graduation, additional to those obtained in the prescribed subjects and the chosen major electives, may be secured from any subject offered in the University whose election is approved by the Dean of the college. Among the subjects which may be thus chosen are several offered in the College of Literature and Arts. These are as follows:

*Anthropology*: Two courses are offered. See p. 177.

*Art and Design*:\* Of this 20 hours, but no more, may be counted for the degree of bachelor of arts. The work of this department is so important for culture that every student should elect some of it.

*Comparative Literature and Philology*. See p. 205.

*Italian and Spanish*. See pp. 246 and 286.

The following subjects in other colleges and schools of the University may also be taken as minors.

*Architecture*: Domestic Architecture (Arch. 27), and History of Architecture (Arch. 29).

*Law*: The following subjects in the College of Law are open to students in the College of Literature and Arts without fee: Constitutional Law (Law 22), Municipal Corporations (Law 24).

*Library Science*:† Elementary Reference (Lib. 2); Selection of Books (Lib. 3); History of Libraries (Lib. 7); Bibliography (Lib.

\* Special students may elect any amount of the subject.

† No library science, except course 12, may be elected before senior year.

6); Advanced Reference (Lib. 8); Public Documents (Lib. 13); Book-Making (Lib. 9); Library Seminar (Lib. 14).

*Music:* History of Music (Mus. 1); Orchestra (Mus. 21); Choral Society (Mus. 22).

Any other course offered in the University may be taken, subject to the approval of the Dean and the professors concerned.

## COURSE OF INSTRUCTION

### FIRST YEAR

Fifteen to eighteen hours a week, including military and physical training, must be chosen each semester.

Military science and tactics are required of all male students. Drill extends through the freshman and sophomore years, and tactics through the second semester of the freshman year.

Physical training is required of all freshmen, men and women, two hours for men and three hours for women.

The following subjects are open to freshmen:

#### *First Semester—*

*Art and Design* 1.

*English Literature and Rhetoric:* English 1; Rhetoric 1 or 2.

*Foreign Language:* French 1; German 1; Greek 1 (for those who have not before studied Greek); Greek 5 (for those offering entrance credits in Greek); Latin 1 (for those offering 9 credits for entrance); Latin 2 (for those offering 12 credits for entrance).

*History and Political Science:* History 1; Economics 7 and 26.

*Mathematics* 1 and 3, or 2 and 4.

*Science:* Astronomy 1; Botany 11; Chemistry 1; Entomology 1 and 4; Geology 3; Physical Geography (Geology 8); Zoölogy 10 and 11.

*Military* 2.

*Physical Training* 1 and 3 for men; 7 and 9 (Physiol. 6) for women.

#### *Second Semester—*

*Art and Design* 1.

*English Literature and Rhetoric:* English 4 and 23; Rhetoric 1, 2 or 11.

*Foreign Language:* French 1; German 3; Greek 2 (after Greek 1); Greek 6 (after Greek 5); Latin 1 and 3.

*History and Political Science:* History 1 and 11; Economics 22 and 26.

*Mathematics* 6.

*Science:* Astronomy 4; Chemistry 3a, 3b, and 4; Entomology 1 and 4; Geology 3; Physical Geography (Geology 8); Zoölogy 10.

*Military* 1 and 2.

*Physical Training:* 1 and 3 for men; 7 for women.

The work of the remaining years is elective, but the elections must include the necessary number of hours from each group as specified on page 78.

## TRAINING FOR BUSINESS

Courses in economics, commerce and industry are offered in combination with courses in language, law, science and mechanical technology, with the aim of providing a university training for business life. The combined courses are designed to give the student a knowledge of the general principles that underlie all lines of business, with special training in the work of some particular calling.

The subjects of study are arranged to furnish training for (1) general mercantile business, (2) banking, (3) transportation, (4) journalistic work, (5) insurance.

The work of the class-room is supplemented with lectures by practical specialists, and with visits of inspection to industrial and mercantile establishments.

The outline of the General Business Course and that of the course in Banking are given below. *The other courses are described in detail in a special circular, which may be had on application to the Registrar.*

## GENERAL BUSINESS COURSE

### FIRST YEAR

1. Commercial Geography (Econ. 26); English Economic History (Econ. 7); English or French or German or Spanish or Italian; Military; Physical Training; Rhetoric and Themes (Rhet. 1); Trigonometry and Algebra (Math. 2, 4).

2. Commercial Geography (Econ. 26); English or French or German or Spanish or Italian; Military; Physical Training; Political History of England (Hist. 11); Rhetoric and Themes (Rhet. 1).

#### SECOND YEAR

1. Business Writing (Rhet. 10); English or foreign language continued; History of Commerce (Econ. 27); Military; Principles of Economics (Econ. 1); Science, chosen according to course.

2. Business Writing (Rhet. 10); Economic History of United States (Econ. 22); English or foreign language continued; Logic (Phil. 1); Money and Banking (Econ. 3); Military.

#### THIRD YEAR

1. Corporation Management and Finance (Econ. 10); Domestic Commerce (Econ. 28); Foreign language continued; Labor Problem (Econ. 12); Materials of Commerce.

2. Accounting; City Government (Govt. 3); Foreign Commerce (Econ. 29); Foreign language continued; Industrial Consolidations (Econ. 11); Materials of Commerce.

#### FOURTH YEAR

1. Commercial Law (Law B); Commercial Policy of United States (Econ. 30), or Domestic and Foreign Markets of United States (Econ. 32); Elective; Practical Banking (Econ. 9); Thesis.

2. Commercial Law (Law B); Commercial Policy of United States (Econ. 30), or Domestic and Foreign Markets of United States (Econ. 32); Elective; Generation and Transmission of Power (M. E. 31), or Machinery and Manufacturing (M. E. 30); Public Finance (Econ. 5); Thesis.

### COURSE IN BANKING

#### FIRST YEAR

Same as in General Business Course.

#### SECOND YEAR

1. Business Writing (Rhet. 10); Elective; English Literature (Eng. 1); Military; Principles of Economics (Econ. 1); Science.

2. Business Writing (Rhet. 10); Logic (Phil. 1); Money and Banking (Econ. 3); Science; Statistics (Econ. 23, 24).



## THIRD YEAR

1. Corporation Management and Finance (Econ. 20); Electives; Financial History of United States (Econ. 4); Practical Banking (Econ. 9).

2. Accounting; City Government (Govt. 3); Industrial Consolidations (Econ. 11); Public Finance (Econ. 5); The Money Market (Econ. 8).

## FOURTH YEAR

1. Commercial Law (Law B); Corporation Law (Law C); Domestic Commerce (Econ. 28); Electives; Science of Government (Govt. 1); Taxation (Econ. 6); Thesis.

2. Commercial Law (Law B); Corporation Law (Law C); Electives; Economic History of United States (Econ. 22); Science of Government (Govt. 1); Taxation (Econ. 6); Thesis.

## LEGAL STUDY AND COLLEGE WORK

By a proper selection of his studies it is possible for a prospective law student to take both his degree in arts and his degree in law in six years. A student who intends to do this should first do all the work prescribed for candidates for the degree of A.B. (see pp. 78-81); he should then take studies sufficient to leave him not more than fifteen hours' credit to make in the senior year of his college course. The student during this year should enroll in the College of Law and take the first year's work there. Of this work ten hours, but no more, may be counted in the College of Literature and Arts. These ten hours must be in contracts and real property.

*Students are not permitted to take this law work for credit toward the arts' degree until their senior year.*

A fee of five dollars is charged for every law subject, except Courses 22 and 24, page 249, taken by students who do not pay the regular law school fees.

## SPECIAL STUDENTS OF ART AND DESIGN

No student of art, upon entering a course of professional study, is able to determine the line in which he will later

specialize. Accordingly students of art upon entering the University are required to follow a course introducing them to the principles and practice of the four closely allied branches of art—drawing, painting, modeling and design.

#### COURSE OF STUDY

First Year. I. and II. Courses 3, 8, 19. See pp. 185, 186.

Second Year. I. Courses 3, 4, 10, 12, 14, 16; II., Courses 3, 5, 12, 14, 16. See pp. 185, 186.

The above course may be followed by two years devoted to painting, modeling, or design, as the student may elect.

#### PREPARATION FOR TEACHING

Since the colleges and universities can only be supplied with students suitably prepared for their work through a system of secondary schools of high excellence, they have throughout the entire country turned their attention to the problem of furnishing the schools upon which they are dependent with properly qualified teachers. In this work, every department of the university which is represented in the secondary curriculum has its part. It is the belief of those more directly in charge of the preparation of teachers at the University of Illinois that all students preparing for work in the high schools of the State should take at least two years' work (16-20 hours) in that subject, or those subjects, which are to be taught as specialties; and one year's work (8-10 hours) in those subjects which the person would be willing to teach if called upon to do so. It is also urged that considerable time be spent in the study of those subjects most closely allied. The subjects thus chosen would, of course, vary with different students. But in addition to such variables, it is believed that certain constants should form a part of the University program of every student preparing to teach.

Among these constants are (1) certain courses offered by the department of education. Of these, education 1, covering the general principles of education, and education 6,

which is a critical-study of high school organization and administration, are recommended; (2) one of the elementary courses in the department of psychology (psychology 1 or 2); (3) a minor course in sociology, important since education is so largely the result of other social organization than the school; (4) a minor course in the history of philosophy. Other things being equal, preference will be given in the recommendation of candidates for teaching positions, to students who have followed more or less fully this outline.

## DESCRIPTION OF DEPARTMENTS

### ART AND DESIGN

All the courses of the department are open to special students of art. These students enjoy opportunities beyond the reach of students in the usual art school, since the work of other departments of the University is open to them without additional expense.

On account of the close connection of the department of art and design with the other departments of the University, students may specialize in the artistic sides of their chosen courses of study, and students who wish to become teachers of drawing or of manual training in the public schools may arrange courses to suit their individual needs.

### COMMERCE

See under Economics.

### ECONOMICS

The department of economics includes general economics and economic history, sociology and statistics, finance, commerce and industry. The courses are grouped to provide training for citizenship, graduate study and specialization in the lines mentioned above, and training for business life.

### EDUCATION

The department of education aims to meet the needs of the prospective secondary school teacher, and of the prospec-

tive city superintendent. The normal schools of our state are well equipped for supplying the wants of the elementary schools, and it is intended that this work shall be supplemented, though not duplicated, here.

The department possesses a pedagogical library and museum, which contains various materials of interest and value to the student of the theory and art of teaching, and forms a working pedagogical laboratory.

#### ENGLISH LANGUAGE AND LITERATURE

The courses are designed to give a continuous view of the twofold subject from the earliest times to our own day. In junior and senior years courses are offered in both lines, so that students, having had the fundamental work of the sophomore year, may, if they desire, confine themselves either to philology or to literature.

#### FRENCH

(See Romanic Languages, p. 227.)

#### GERMAN

The instruction offered in this department includes elementary courses consisting of two years' work, and of advanced elective courses in the field of modern German literature. Courses are also offered in Old and Middle High German.

#### GOVERNMENT (SCIENCE OF)

The work in science of government is planned to give training for citizenship, to lay a foundation for the future study of law or for active political life, and to furnish advanced study for those who intend to teach the subject.

#### GREEK

See courses, p. 237.

#### HISTORY

An effort is made, not merely to give students a general knowledge of historical facts, but also to give them some conception of the aims and methods of historical science,

and of the materials with which it deals. To this end exercises in historical investigation, more or less elementary, form a prominent part of the work.

#### HOUSEHOLD SCIENCE

The work in household science is organized primarily in the College of Agriculture, but all the courses are open as electives to students in the College of Literature and Arts. The purpose of the work in household science is not only to prepare teachers of the subject, but also to give every young woman some training in the proper conduct of household affairs. The esthetic and cultural side, as well as the practical, is strongly presented. All the work of the department counts towards the art's degree. A full description is given on pages 244-246.

#### ITALIAN

(See Romanic Languages, p. 90.)

#### LATIN

See courses, p. 246.

#### LIBRARY SCIENCE

Students who wish to do so, may take the degree of bachelor of arts in library science by devoting their senior year to the first year of work in the Library School. Students who wish to graduate in this way must fulfill the literary requirements for graduation as set forth on page 78, and must in their senior year take library science 1, 2, 3, 4, 7 and 14. Library Science 12 is open as an elective to all students.

#### MATHEMATICS

All the courses offered by the department of mathematics are open to the students of the College of Literature and Arts. These courses are so arranged that a student may take continuous work in the subject for from one to four years. Mathematics is included in the philosophical group.

Those students who take *mathematics* as their major

work must take the courses in mathematics numbered 1, 3 (or 2, 4), 6, 8a, 8b, 10, 11, 15, 16, 17. They must also make sixteen hours' credit in either German or French. They are advised to take also physics 1, 3.

#### **PHILOSOPHY**

The work in this department is so arranged that students may take a continuous course for two years and a half. With the exception of the course in logic (Phil. 1), which is open to sophomores, none of the courses may be taken before the junior year.

While psychology is not made a requirement for any course, students will find psychology 1 or 2 a valuable preparation for their study of philosophy. The department for the present offers courses in anthropology.

#### **PHYSICAL TRAINING**

A full description of this department is given on pp. 276, 311.

#### **PSYCHOLOGY**

Psychology is treated with a view to giving the student a connected idea of its development. Its experimental development and recent phases are given special attention.

#### **RHETORIC AND ORATORY**

See courses, p. 284.

#### **ROMANIC LANGUAGES AND LITERATURES**

This department offers four years of instruction in French and one year each in Spanish and Italian.

#### **SOCIOLOGY**

See courses 15 and 17 under economics, p. 213. See for allied courses, anthropology, p. 177, philosophy, p. 274, and English 21, p. 224.

#### **SPANISH**

(See Romanic Languages above.)

# COLLEGE OF ENGINEERING

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## AIMS AND SCOPE

The purposes of the College of Engineering are thoroughly to prepare men for the professions of engineering and architecture, and also to offer a first-rate training for future managers of great business enterprises. The different courses must therefore comprise both general and technical studies. A primary requisite of success is the ability to present briefly and clearly ideas in terse, correct, and vigorous English. A large fund of general knowledge is now essential to every professional man in order to maintain proper influence among business men. An acquaintance with social customs and life is equally helpful.

The marked tendency at present toward specialization requires the graduate to be able successfully to enter any specialty of his profession, thus requiring both breadth and thoroughness in his technical training, with frequent applications to practical problems. Employers have no time to educate assistants in the details of their work.

## EQUIPMENT

The special equipment of each department is described in connection with that department. The general equipment of the College consists of a good reference library of indexes, pocket-books, mathematical tables, and other works, together with a very valuable collection of apparatus for economizing time and ensuring accuracy in engineering calculations, and checking computations.

The principal instruments are Thomas's 10-place arithmometer, giving accurate results to 20 places; Thacher's computing scales; Grant's computing machines; other calculating machines, various types of slide rules, adders, etc.; Amsler's polar planimeter and Amsler's integrator; Coradi's linear and polar planimeters for very accurate measurement of irregular plane areas; Coradi's pantagraph for the automatic reduction of drawings and maps.

### ENGINEERING EXPERIMENT STATION

The Engineering Experiment Station was established December 8, 1903, and is the earliest experiment station connected with any college of engineering in the United States. Its purposes are the stimulation and elevation of engineering education, and the study of problems of especial importance to professional engineers, to men engaged in the manufacturing, railway, mining, industrial, and other interests intimately connected with the public welfare in this state. The equipment of machines and other apparatus will be placed in the different laboratories of this College, and the investigations are to be made under the supervision of the professor in charge of each laboratory.

The Board of Direction consists of the Dean and all full professors in the College of Engineering.

### DESCRIPTION OF DEPARTMENTS

#### ARCHITECTURE

This department offers two courses of instruction and practice, preparing the graduate to enter respectively the professions of architect and architectural engineer.

The course in architecture prepares for the examination prescribed by the state license law for architects and for the general practice of architecture.

The specialties of the course are construction, rendering drawings, design, architectural history, perspective.



**EQUIPMENT**

A large collection of casts of ornament, models of structures, working drawings and blue prints, specimens of stones, bricks, tiles, terra cotta, fixtures and fittings, etc., is arranged in the architectural museum. More than 20,000 engravings, photographs, etc., mounted on cards, are classified for quick reference in the drawing rooms. An electric lantern is used in a specially fitted room, together with a collection of 6,200 lantern slides illustrating the history of architecture and of painting. A very fine architectural library is located in a large room in the department, and is open for use by students during the entire day. A vertical file case contains a large classified collection of plates from architectural journals.

**COURSE OF INSTRUCTION***Required for Degree of B. S. in Architecture***First Year**

1. Advanced Algebra and Trigonometry (Math. 2, 4); Lettering, Elements of Drafting, Sketching and Working Drawings (Drawing, Gen. Eng'g 1a, 1b, 1c); Free-hand Drawing or Modeling (Arch. 20 or 21); French 1, or German 1 or 4, or English 1; Military 2; Physical Training 1, 3 or 7, 9.

2. Analytical Geometry (Math. 6); Descriptive Geometry (Drawing, Gen. Eng'g 2); Orders of Architecture (Arch. 8); French 1, or German 3 or 5 or 6, or English 4, 23, or Rhetoric 11; Military 1, 2; Physical Training 1, 3.

**Second Year**

1. Applied Mechanics (Theo. and App. Mech. 4); Wood Construction (Arch. 2); Architectural Perspective (Arch. 14); Physics 1, 3; Monthly Problems (Arch. 9); Rhetoric 2; Military 2.

2. Strength of Materials (Theo. and App. Mech. 5); Masonry and Metal Construction (Arch. 3); Requirements and Planning of Buildings (Arch. 15); Physics 1, 3; Monthly Problems (Arch. 9); Rhetoric 2; Military 2.

**Third Year**

1. History of Architecture (Arch. 6); Historic Ornament (Arch. 7); Architectural Seminary (Arch. 11); Sanitary Construc-

tion (Arch. 4); Architectural Composition (Arch. 18); Chemistry 1, or Economics 2; Art and Design 3a; Monthly Problems (Arch. 9).

2. History of Architecture (Arch. 6); Historic Ornament (Arch. 7); Architectural Seminary (Arch. 11); Graphic Statics and Roofs (Arch. 5); Architectural Designing (Arch. 17); Working Drawings and Residence Design (Arch. 10, 16); Art and Design 8a; Monthly Problems (Arch. 9); Thesis (Arch. 30).

#### Fourth Year

1. Superintendence, Estimates and Specifications (Arch. 12); Heating and Ventilation (Arch. 13); Renaissance Design (Arch. 22); Gothic and Romanesque Design (Arch. 23, 24); Mural Decoration (Arch. 28); Architectural Readings (Arch. 31); Monthly Problems (Arch. 9).

2. Design of Ornament (Arch. 25); Mural Decoration (Arch. 28); Surveying (Civil Eng'g 10); Architectural Readings (Arch. 31); Monthly Problems (Arch. 9); Elec. Lighting (E. E. 9); Thesis (Arch. 30).

### ARCHITECTURAL ENGINEERING

This course of study prepares students for professional practice as architectural engineers, structural designers and computers, as well as superintendents of construction. It is intended for students who prefer the structural and mathematical side of the profession to its artistic side, and who desire to pursue the full engineering course in mathematics and to acquire a thorough knowledge of the iron and steel construction now employed in buildings. It differs from the architectural course principally in the addition of a second year of mathematics and of a year of study in bridge analysis and design, and in devoting considerably less time to architectural drawing and design.

#### COURSE OF INSTRUCTION

*Required for Degree of B. S. in Architectural Engineering*

#### First Year

1. Advanced Algebra and Trigonometry (Math. 2, 4); Lettering, Elements of Drafting, Sketching and Working Drawings

(Drawing, Gen. Eng'g 1a, 1b, 1c); Shop Practice (Mech. Eng'g 1), or Free-hand Drawing or Modeling (Arch. 20 or 21); French 1, or German 1 or 4, or English 1; Military 2; Physical Training 1, 3 or 7.

2. Analytical Geometry (Math. 6); Descriptive Geometry (Drawing, Gen. Eng'g 2); Shop Practice (Mech. Eng'g 1), or Free-hand Drawing (Arch. 20 or 21); or The Orders of Architecture (Arch. 8); French 1, or German 3 or 5 or 6, or English 4, 23, or Rhetoric 11; Military 1, 2; Physical Training 1, 3 or 7.

#### Second Year

1. Differential Calculus (Math. 7); Wood Construction (Arch. 2); Architectural Perspective (Arch. 14); Physics 1, 3; Rhetoric 2; Military 2.

2. Integral Calculus (Math. 9); Masonry and Metal Construction (Arch. 3); Requirements and Planning of Buildings (Arch. 15); Physics 1, 3; Rhetoric 2; Analytical Mechanics (Theo. and App. Mech. 1a); Military 2.

#### Third Year

1. Analytical Mechanics and Resistance of Materials (Theo. and App. Mech. 1b, 2a); History of Architecture (Arch. 6); Architectural Seminary (Arch. 11); Sanitary Construction (Arch. 4); Chemistry 1.

2. Resistance of Materials, Hydraulics (Theo. and App. Mech. 2b, 3); Engineering Materials (Theo. and App. Mech. 6); History of Architecture (Arch. 6); Architectural Seminary (Arch. 11); Graphic Statics and Roofs (Arch. 5); Chemistry 16; Working Drawings (Arch. 10).

#### Fourth Year

1. Superintendence, Estimates, and Specifications (Arch. 12); Heating and Ventilation (Arch. 13); Architectural Engineering (Arch. 19); Bridge Analysis and Details (Civil Eng'g 12, 13); Architectural Readings (Arch. 31); Thesis (Arch. 30).

2. Bridge Details and Design (Civil Eng'g 13, 14); Surveying (Civil Eng'g 10); Architectural Engineering (Arch. 19); Architectural Readings (Arch. 31); Lighting (E. E. 9); Thesis (Arch. 30).

## CIVIL ENGINEERING

The design in this department is to furnish a course of theoretical instruction, accompanied and illustrated by a large amount of practice. While the instruction aims to be practical by giving the student information and practice directly applicable in his future professional work, the prime object is the development of the mental faculties. The power to acquire information and ability to use it are held to be of far greater value than any amount of so-called practical knowledge.

## EQUIPMENT

This department has an extensive equipment of compasses, engineers' transits, solar transits, levels,—ordinary and precise,—plane tables, sextants, chronometers, barometers, etc. For the lecture room the department is provided with a collection of structural shapes and with full-sized joints of an actual railroad bridge, sections of columns, eye-bars, etc., and a collection of lithographs, photographs, and blue-prints of bridges and buildings.

The *cement laboratory* occupies rooms in Engineering Hall, and is provided with slate tables, testing machines, molding machines, sieves, etc., and sample barrels of hydraulic cement, varieties of sand, and other necessary materials.

## COURSE OF INSTRUCTION

*Required for the Degree of B. S. in Civil Engineering*

## First Year

1. Advanced Algebra and Trigonometry (Math. 2, 4); Lettering, Elements of Drafting, Sketching and Working Drawings (Drawing, Gen. Eng'g 1a, 1b, 1c); Shop Practice (Mech. Eng'g 1); French 1, or German 1 or 4, or English 1; Military 2; Physical Training 1, 3.

2. Analytical Geometry (Math. 6); Descriptive Geometry (Drawing, Gen. Eng'g 2); Shop Practice (Mech. Eng'g 1); French 1, or German 3 or 5 or 6, or English 4, 23, or Rhetoric 11; Military 1, 2; Physical Training 1, 3.

**Second Year**

1. Differential Calculus (Math. 7); Surveying (Civil Eng'g 21); Physics 1, 3; Rhetoric 2; Military 2.

2. Integral Calculus (Math. 9); (Theo. and Appl'd Mech. 1a); Topographical Surveying (Civil Eng'g 22); Railroad Curves (Civil Eng'g 23); Physics 1, 3; Rhetoric 2; Military 2.

**Third Year**

1. Analytical Mechanics, and Resistance of Materials (Theo. and Appl'd Mech. 1b, 2a); Railroad Engineering (Civil Eng'g 4); Chemistry 1; Steam Engines (Mech. Eng'g 16).

2. Resistance of Materials, and Hydraulics (Theo. and Appl'd Mech. 2b, 3, 6); Graphic Statics (Civil Eng'g 20); Road Engineering (Mun. and San. Eng'g 1); Descriptive and Practical Astronomy (Astron. 3, 6); or Engineering Geology (Geol. 13); Steam Boilers (Mech. Eng'g 17); Railroad Structures (Civil Eng'g 19).

**Fourth Year**

1. Bridge Analysis (Civil Eng'g 12); Bridge Details (Civil Eng'g 13); Masonry Construction (Civil Eng'g 5); Water Supply Engineering (Mun. and San. Eng'g 2); Metal Structures (Civil Eng'g 24); Thesis (Civil Eng'g 30).

2. Bridge Design (Civil Eng'g 14); Sewerage (Mun. and San. Eng'g 3); Tunneling (Civil Eng'g 18); Economics 2; Engineering Contracts and Specifications (Civil Eng'g 16); Thesis (Civil Eng'g 30).

**ELECTRICAL ENGINEERING**

This is a course in theoretical and applied electricity. The first two years of work are substantially the same as in the other engineering courses. The last two years include, in addition to the regular electrical work, courses in civil and mechanical engineering, in theoretical and applied mechanics and in economics.

**EQUIPMENT**

The lecture rooms, drafting rooms, and laboratories are equipped with the latest and best apparatus. In the dynamo laboratory are various sizes and types of direct and alternat-

ing current dynamos, motors, and converters; transformers for all classes of polyphase testing; direct and alternating current switch-boards, of eight marble panels each, with every appliance for expeditious handling of electric currents. The workshop is fitted for the several branches of electrical construction. Power is supplied from the storage battery installation of this department and from the University electric light and power plant, whose direct and alternating current dynamos, driven by steam engines, also afford many facilities for experimental work.

### COURSE OF INSTRUCTION

*Required for the Degree of B. S. in Electrical Engineering.*

#### First Year

1. Advanced Algebra and Trigonometry (Math. 2, 4); Lettering, Elements of Drafting, Sketching and Working Drawings (Drawing, Gen. Eng'g 1a, 1b, 1c); French 1, or German 1 or 4, or English 1; Shop Practice (Mech. Eng'g 1); Military 2; Physical Training 1, 3.

2. Analytical Geometry (Math. 6); Descriptive Geometry (Drawing, Gen. Eng'g 2a); French 1, or German 3 or 5 or 6, or English 4, 23, or Rhetoric 11; Shop Practice (Mech. Eng'g 1); Military 1, 2; Physical Training 1, 3.

#### Second Year

1. Differential Calculus (Math. 7); Physics 1, 3; Rhetoric 2; Elements of Machine Design (Mech. Eng'g 4); Shop Practice (Mech. Eng'g 2); Military 2.

2. Integral Calculus (Math. 9); Physics 1, 3; Rhetoric 2; Elements of Machine Design (Mech. Eng'g 4); Shop Practice (Mech. Eng'g 2); Military 2.

#### Third Year

1. Analytical Mechanics and Resistance of Materials (Theo. and Appl'd Mech. 1, 2a); Chemistry 1; Electrical and Magnetic Measurements (Physics 4); Dynamo-Electric Machinery (Elect. Eng'g 16); Steam Engines (Mech. Eng'g 16).

2. Resistance of Materials, Hydraulics (Theo. and Appl'd Mech. 2b, 3); Steam Boilers (Mech. Eng'g 17); Dynamo-Electric

Machinery (Elect. Eng'g 16); Electrical and Magnetic Measurements (Physics 4); Electrical Engineering Laboratory (Elect. Eng'g 22); Surveying (Civ. Eng'g 10).

#### Fourth Year

1. Telegraphy and Telephony (E. E. 4); Alternating Currents (E. E. 5); Electrochemistry (E. E. 12); Seminary (E. E. 13); Electric Distribution (E. E. 15); Electrical Engineering Laboratory (E. E. 23 and E. E. 27); Electrical Design (E. E. 32); Economics (Econ. 2).

2. Light and Power Plants (E. E. 11); Seminary (E. E. 13); Advanced Alternating Currents (E. E. 14); Traction (E. E. 17); Electrical Engineering Laboratory (E. E. 24); Electrical Design (E. E. 33); Estimates, Specifications, and Superintendence (M. E. 10); Mechanical Engineering Laboratory (M. E. 13); Economic Problems (Econ. 16); Thesis.

## MECHANICAL ENGINEERING

It is the primary object of the Department of Mechanical Engineering to give its students a thorough training in the theoretical principles underlying the construction and operation of machinery and the generation and transmission of power. The theoretical instruction is supplemented by shop and laboratory work of a practical character.

#### EQUIPMENT

The *drawing rooms* are equipped with card indexes, reference books, catalogs, gear charts, etc. In the cabinet rooms are kinematic models and sectioned steam specialties.

The *steam engineering laboratory* is in the *Mechanical and Electrical Engineering Laboratory*. It contains ten steam engines available for testing purposes. The facilities for boiler testing are excellent. There are several types of boilers equipped with different kinds of automatic stokers. There are also various kinds of steam and power pumps and numerous steam specialties arranged for tests.

The laboratory contains three gas engines, an air compressor, a hot air engine, a large volume fan, and a com-

plete outfit of instruments used by the mechanical engineer for testing purposes.

The shops of the College are in charge of this department; they consist of a wood shop, foundry, forge shop, and machine shop.

The shops are large, well lighted and attractive; they are all equipped with modern tools and furnish abundant facilities for giving the student the necessary practice in this line of work.

By special arrangement with the management of the Peoria and Eastern division of the C. C. C. & St. L. Ry., the power plant and shops located at Urbana have been opened to the Mechanical Engineering Department for visits of inspection and for experimental investigations. Ample opportunity is thus furnished for the study of machinery and processes in a shop operated under commercial conditions.

#### COURSE OF INSTRUCTION

##### *Required for the Degree of B. S. in Mechanical Engineering*

##### First Year

1. Advanced Algebra and Trigonometry (Math. 2, 4); Lettering, Elements of Drafting, Sketching and Working Drawings (Drawing, Gen. Eng'g 1a, 1b, 1c); French 1, or German 1 or 4, or English 1; Shop Practice (Mech. Eng'g 1); Military 2; Physical Training 1, 3.

2. Analytical Geometry (Math. 6); Descriptive Geometry (Drawing, Gen. Eng'g 2); French 1, or German 3 or 5 or 6, or English 4, 23, or Rhetoric 11; Shop Practice (Mech. Eng'g 1); Military 1, 2; Physical Training 1, 3.

##### Second Year

1. Differential Calculus (Math. 7); Physics 1, 3; Rhetoric 2; Elements of Machine Design (Mech. Eng'g 4); Shop Practice (Mech. Eng'g 2); Military 2.

2. Integral Calculus (Math. 9); Analytical Mechanics (Theo. and App. Mech. 1a); Physics 1, 3; Rhetoric 2; Elements of Machine Design (Mech. Eng'g 4); Shop Practice (Mech. Eng'g 2); Military 2.



**Third Year**

1. Analytical Mechanics and Resistance of Materials (Theo. and Appl'd Mech. 1b, 2a); Chemistry 1;\* Mechanism (Mech. Eng'g 5); Electrical Engineering (Elect. Eng'g 1 and 21); Steam Boilers (Mech. Eng'g 24).

2. Resistance of Materials and Hydraulics (Theo. and Appl'd Mech. 2b, 3); Chemistry 16; Power Measurements (Mech. Eng'g 3); Graphical Statics of Mechanism (Mech. Eng'g 18); Steam Engines (Mech. Eng'g 23); Surveying (Civil Eng'g 10); Materials of Engineering (Theo. and Appl'd Mech. 6).

**Fourth Year**

1. Thermodynamics (Mech. Eng'g 7); Heat Engines (Mech. Eng'g 6); High-Speed Steam Engines and Valve Gears (Mech. Eng'g 14); Advanced Designing (Mech. Eng'g 9); Advanced Mechanical Laboratory (Mech. Eng'g 12); Economics 2; Seminary (Mech. Eng'g 19); Thesis.

2. Mechanics of Machinery (Mech. Eng'g 8); Estimates (Mech. Eng'g 10); Advanced Designing (Mech. Eng'g 9); Advanced Mechanical Laboratory (Mech. Eng'g 12); Economics 16; Seminary (Mech. Eng'g 19); Thesis.

**RAILWAY ENGINEERING**

The railroad interests of the country have become so important as to demand separate recognition in the courses of those educational institutions which offer instruction in engineering.

Wishing to meet the demand for specialization in this important work the University has established an undergraduate course leading to the degree of B.S. in *Railway Engineering* and has also provided for graduate instruction and investigation leading to a second degree.

The course is devoted to the problems of motive power and machinery, including construction, design, and operation of locomotives and rolling stock, and tests of fuel, water supply, materials, and supplies.

The department of civil engineering furnishes special instruction relating to construction and maintenance of way.

**EQUIPMENT**

The shops and laboratories of the departments of mechanical and electrical engineering, applied mechanics, and chemistry furnish abundant laboratory facilities for work along these special lines.

The department possesses a considerable amount of class room and laboratory material, such as photographs, blue prints, and samples of manufactured specialties of value to the students of this work.

This department now owns, with the Illinois Central R. R., a fully equipped railway test car, No. 17. This car has been designed for locomotive and railway tests, and is used for no other purpose. It has been equipped with special reference to the following service:

1. Locomotive road tests for economy.
2. Locomotive capacity tests and measurements of train resistance.
3. Air brake service inspection.
4. Stationary plant tests at railway shops and water stations.

The department owns a continuous steam engine indicator, apparatus for determining the effect of scale deposits on the transfer of heat through the tubes, as well as considerable apparatus designed and built for various tests of locomotives in actual service.

The New York Air Brake Company has recently presented to the department a complete equipment of automatic air-brakes for engine, tender, and five cars.

The railway shops of the P. & E. Div. of the C. C. C. & St. L. Ry. at Urbana furnish exceptional opportunities for inspection of construction and repair work, and the assured aid that this department will receive from the management of these shops will be of great value to the student.

## COURSE OF INSTRUCTION

*Required for the Degree of B.S. in Railway Engineering*

## First, Second and Third Years

Same as the course of instruction in mechanical engineering.

## Fourth Year

1. Thermodynamics (Mech. Eng'g 7); Heat Engines (Mech. Eng'g 6); Locomotive Engine Design (Ry. Eng'g 2); Shop Systems (Ry. Eng'g 3); Locomotive Road Tests (Ry. Eng'g 4); Economics 2; Seminary (Mech. Eng'g 19); Thesis.

2. Mechanics of Machinery (Mech. Eng'g 8); Compressed Air in Railway Service (Ry. Eng'g 5); Railway Estimates (Ry. Eng'g 6); Advanced Designing (Ry. Eng'g 7); Dynamometer Car Tests (Ry. Eng'g 8); Economics 16; Seminary (Mech. Eng'g 19); Thesis.

## MECHANICS, THEORETICAL AND APPLIED

The courses in theoretical and applied mechanics are designed to meet the needs of students of the College of Engineering.

The laboratory of applied mechanics, comprising the materials laboratory and hydraulic laboratory, occupies a new building. The materials laboratory is equipped with testing machines for tension, compression, flexure, and torsion, and for testing paving brick and building materials. The hydraulic laboratory has a standpipe, pumps, water motors, measuring pits, Venturi meters, weir conduits, meter rating conduit, orifice boxes, weir boxes, and apparatus for experimental work on flow of water through pipes, hose, and nozzles. The University water-works furnishes an abundant supply of water at pressures up to 100 lbs. per sq. in.

## MUNICIPAL AND SANITARY ENGINEERING

This course is designed for students desiring to make a specialty of city engineering work. It prepares for the varied duties of engineer of the department of public works

of cities and includes instruction in modern methods of sanitation of cities.

#### INSTRUCTION

The methods of training are intended to develop power to take up and solve new problems connected with municipal public works, as well as to design and to superintend the ordinary constructions. Surveying, structural materials, and structural design are taught as in the civil engineering course. Chemistry, botany, and bacteriology, so far as necessary to a comprehension of the questions involved in water supply and sewage disposal, are given.

#### COURSE OF INSTRUCTION

##### *Required for the Degree of B.S. in Municipal and Sanitary Engineering*

##### First Year

1. Advanced Algebra and Trigonometry (Math. 2, 4); Lettering, Elements of Drafting, Sketching and Working Drawings (Drawing, Gen. Eng'g 1a, 1b, 1c); Shop Practice (Mech. Eng'g 1); French 1, or German 4, or English 1; Military 2; Physical Training 1, 3.

2. Analytical Geometry (Math. 6); Descriptive Geometry (Drawing, Gen. Eng'g 2); Shop Practice (Mech. Eng'g 1); French 1, or German 3 or 5 or 6, or English 4, 23, or Rhetoric 11; Military 1, 2; Physical Training 1, 3.

##### Second Year

1. Differential Calculus (Math. 7); Surveying (Civil Eng'g 21); Physics 1, 3; Rhetoric 2; Military 2.

2. Integral Calculus (Math. 9); Topographical Surveying (Civil Eng'g 22); Railroad Curves (Civil Eng'g 23); Physics 1, 3; Analytical Mechanics (Theo. and Appl'd Mech. 1a); Rhetoric 2; Military 2.

##### Third Year

1. Analytical Mechanics, and Resistance of Materials (Theo. and Appl'd Mech. 1b, 2a); Bacteriology (Mun. and San. Eng'g 5a); Chemistry 1; Railroad Engineering (Civil Eng'g 4a); Electrical Engineering 1 and 21.

2. Resistance of Materials, and Hydraulics (Theo. and Appl'd Mech. 2b, 3); Road Engineering (Mun. and San. Eng'g 1); Graphic

Statics (C. E. 20); Chemistry 3b, 20; Steam Boilers (Mech. Eng'g 17); Steam Engines (Mech. Eng'g 23); Engineering Materials (Theo. and Appl'd Mech. 6).

#### Fourth Year

1. Bridges (Civil Eng'g 12, 13); Masonry Construction (Civil Eng'g 5); Water Supply Engineering (Mun. and San. Eng'g 2); Water Purification, Sewage Disposal and General Sanitation (Mun. and San. Eng'g 6a); Thesis.

2. Bridge Design (Civil Eng'g 14a); Engineering Contracts and Specifications (Civil Eng'g 16); Mechanical Engineering Laboratory (Mech. Eng'g 13); Sewerage (Mun. and San. Eng'g 3); Water Purification, Sewage Disposal, and General Sanitation (Mun. and San. Eng'g 6b); Economics 2; Thesis.

## PHYSICS

### LABORATORY AND EQUIPMENT

The physics department occupies, in Engineering Hall, a lecture room, with seats for 230 students; four adjoining rooms, for lecture apparatus and preparation; a general laboratory room 60 feet square, for first year experimental work; an adjoining apparatus room; six small laboratories on the first floor with masonry piers, a constant temperature room, a battery room, a work shop, and three offices for instructors. These rooms are supplied with gas, water, compressed air, vacuum pipes, polyphase, alternating and direct electric currents, and other facilities for instruction and investigation in physics. The laboratory contains a large collection of standard electrical and magnetic measurement apparatus from the best makers, together with various pieces and devices designed and constructed in the department. In optics there are spectrometers, Rowland diffraction gratings (plane and concave), a Fresnel optical bench, a complete photometer bench in a well-equipped dark room, a spectrum photometer, polarization apparatus, etc. The collection also includes apparatus for measurements of precision, such as balances, dividing engines, cathetometer, chronograph, Kater's pendulum, thermometers, etc. The work shop of

the department is equipped with power lathe, milling machine and a good collection of tools. The services of a mechanician give the department facilities for making apparatus from original designs, both for instruction and investigation.

# COLLEGE OF SCIENCE

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## AIMS AND SCOPE

The College of Science is based upon the idea that the methods of science and the branches of study to which those methods are applicable, present a subject-matter and a discipline suited to the purposes of a liberal education, and that an education so derived differs materially in character and value from one whose substance is mainly literary. This College is distinguished in general from the technical colleges of the University by the fact that its choice of subjects is not limited by practical ends, and from the College of Literature and Arts by the predominance, in its courses and requirements, of the strictly scientific subjects. It is articulated with the latter, however, by the liberal elections from the literary courses permitted to students who have satisfied its demands as to scientific work, and by the special courses in science open to election by students from the companion College.

## ORGANIZATION OF SUBJECTS

The offerings of this College include three groups of subjects: prescribed, major electives, and general electives. The prescribed subjects are required of all students unconditionally; the major electives are to be chosen from a considerable list of courses in the subjects most characteristic of the work of the College; and the general electives are taken, subject to the approval of the Dean, from any courses offered by the University.

The subjects offered are further combined in various

courses, making somewhat different graduation requirements. In the general science course the elections are least restricted. Its specific requirements amount to 41 hours for men and to 37 hours for women; the electives chosen from the list of majors amount to 40 hours' credit; and the remaining studies necessary to complete the total graduation requirement of 130 hours are elected\* by the student at will, subject only to the approval of the College Dean.

Special courses are provided in chemistry, in education, in household science, in mathematics, in physics, and in the studies preliminary to medicine.

## CLASSIFICATION OF SUBJECTS

### General Prescribed List

Chemistry 1, 3b, 4; 10 hours; or 1, 2, 3a, 5a, 9, 9a or 9c; 23 hours.

German 1, 3, 4, 5 or 6, or French 1, 2; 16 hours.†

Mathematics 3 or 4; 2 or 3 hours.

Military Science 1, 2; 5 hours.

Physical Training—

Men, 1, 3; 2 hours.

Women, 7, 9; 3 hours.

Rhetoric 2; 6 hours.

### Major Electives

Astronomy 3, 5, 6, 7, 9, 14.

Botany 1 to 5, 7, 9, 10.

Chemistry‡ 2, 2a, 3, 5 to 15, 17 to 19, 21, 23 to 33.

Entomology 2, 3, 5, 6.

Geology 1, 2, 4 to 7, 9.

Household Science 1 to 5.

Mathematics 1 or 2, 3 or 4, 6, 8a, 8b, 10 to 26.

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\* Students who offer the equivalent of chemistry 1 for admission must arrange for a substitute.

† The attention of students is called to the one hour course in General Reference (Lib. Science 12).

‡ Students having entrance credit for two years of high school German may satisfy the above requirement with eight semester hours each of German and French. Those not receiving two years credit in foreign language must take one year's University work in English or economics. Botany 13 and Zoology 14 (German readings) will be accepted instead of German 6.

§ Courses in Chemistry, and Mathematics taken to meet the requirement of the prescribed list may not be counted as major electives.



Physics 1, 2a, 3 to 10.  
Physical Geography (Geology 8).  
Physiology 1 to 3, 5.  
Psychology 1 to 8.  
Zoölogy\* 1 to 4, 8, 9, 12.

The following subjects are open, as majors, to students in chemical courses only:

Civil Engineering 10.  
Electrical Engineering 1.  
General Engineering Drawing 1a, 1b, 1c.  
Mechanical Engineering 1, 13, 16, 17.  
Theoretical and Applied Mechanics 1, 2a, 2b, 3.

## DEGREES

The usual degree given for work in this College is that of bachelor of arts, but the degree of bachelor of science may be given on recommendation of the head of the department in which the principal major work has been done, and approval of the Faculty of the College.

## GENERAL COURSE IN SCIENCE

A student may graduate from a General Course in Science by taking the subjects of the general prescribed list; 40 hours of work from the major electives (which must include 30 hours in one subject or 40 hours in more than one) and additional studies, chosen, with the approval of the Dean of the College, from any courses offered by the University, and sufficient to complete the general graduation requirement of 130 hours' credit; *provided* that no student shall be graduated from this course with less than 5 hours' credit in physics or geology (1 or 3), and 5 hours in botany or zoölogy.

A thesis course may be taken in any department (subject to the approval of the head thereof) in which the student

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\*Zoology 10 may be credited as a major elective if followed by five hours of major work in zoology or entomology.

has done 20 hours of major work preceding his senior year. Students desiring to take a thesis course in geology or mineralogy may add to their credits in those subjects the credits received for chemistry also; and students in physiology may add to their credits in that subject those in zoölogy and bacteriology. Only students graduating with a thesis will, as a rule, be selected for fellowships, scholarships, and other similar university honors.

#### PROSPECTUS OF COURSES OF INSTRUCTION

In the following list the prescribed subjects, and the major electives in general science available for freshmen, are given in full for the freshman year, the required subjects in italics. For the remaining years only the prescribed subjects are given. *In making up the study list for any semester students should take the subjects italicised, and select from the remainder enough to make the requisite amount of work.*

##### First Year

1. *Art and Design* 1 or 1b; *Chemistry* 1; *Mathematics* 3 or 4 (*Trigonometry*); *Military* 2; *Physical Training* 1, 3, or 7, 9; *Mathematics* 1 or 2 (*Advanced Algebra*); *Botany* 2, 11; *Zoölogy* 10, 2; *Household Science* 2.

2. *Chemistry* 2, 3a, or 3b and 4; *Military* 1, 2; *Mathematics* 6; *Physics* 2; *Art and Design* 2; *Botany* 1, 5; *Entomology* 1; *Zoölogy* 1; *Household Science* 1, 3.

##### Second Year

1. *German* 1 or 4; *Military* 2.

2. *German* 3 or 6; *Military* 2.

##### Third Year

1. *German* 4; *Rhetoric* 2.

2. *German* 5 or 6; *Rhetoric* 2.

#### CHEMISTRY

To graduate in chemistry the candidate must take, in addition to the subjects of the general prescribed list as printed

on p. 108 (including the second alternative in chemistry), the following studies especially prescribed for this course:

German 1, 3, 4, 6; 16 hours.

Lib. Science, 12; 1 hour.

Economics 2; 2 hours.

Philosophy 2 or (3); 3 hours.

Mathematics 1 or 2; 2 or 3 hours.

Chemistry 2a, 9b, 11, 14, 19, 29, 31; 23 hours.

He must further take 28 hours' work (13 of which must be in chemistry) from the general list of major electives subject to the approval of the head of the department, and additional studies, subject to the approval of the College Dean, sufficient to amount to 130 hours' credit in all. He must also file a thesis acceptable to the head of his department.

#### PROSPECTUS OF PRESCRIBED COURSES

##### First Year

1. General Elementary Chemistry (Chem. 1); German 1 or 4; Mathematics 1, 3 or 2, 4; Military 2; Physical Training 1, 3 or 7, 9.

2. Descriptive Inorganic Chemistry (Chem. 2); German 3 or 6; Inorganic Preparations (Chem. 2a); Qualitative Analysis (Chem. 3a); Military 1, 2; Physical Training 1, 3 or 7.

##### Second Year

1. German 4; Physics 1, 3; Quantitative Analysis (Chem. 5a); Rhetoric 2; Military 2; Chemical Arithmetic (Chem. 43).

2. German 5 or 6; Organic Chemistry (Chem. 9 and 9a); Physics 1, 3; Rhetoric 2; Military 2.

##### Third Year

1. Gas Analysis (Chem. 29); Lib. Science 12; Organic Chemistry, special chapters (Chem. 9b and 14); Seminary (Chem. 19).

2. Physical Chemistry (Chem. 31); Seminary (Chem. 19).

##### Fourth Year

1. Seminary (Chem. 19); Philosophy 2 or 13; Thesis. (Chem. 11).

2. Seminary (Chem. 19); Economics 2. Thesis. (Chem. 11).

## CHEMICAL ENGINEERING

The work of the technical chemist or superintendent is frequently so closely associated with mechanical and other engineering lines as to make a knowledge of these subjects essential. To meet these conditions, the following four years' course in chemistry and related engineering subjects has been arranged. Where options are allowed, the subjects chosen must be such that the total course shall contain the 130 hours' credit required for graduation.

## COURSE OF INSTRUCTION

*For the Degree of B.S. in Chemical Engineering*

## First Year

1. General Elementary Chemistry (Chem. 1); Drawing (Gen. Eng'g 1b); German 4; Mathematics 1, 3 or 2, 4; Military 2; Physical Training 1, 3 or 7, 9.

2. Descriptive Inorganic Chemistry (Chem. 2); German 5 or 6; Mathematics 6; Qualitative Analysis (Chem. 3a); Military 1, 2; Physical Training 1, 3 or 7.

## Second Year

1. Mathematics 8a; Physics 1, 3; Quantitative Analysis (Chem. 5a); Rhetoric 2; Military 2.

2. Iron and Steel Analysis (Chem. 8); Shop Practice (Mech. Eng'g 1); Organic Chemistry (Chem. 9); Physics 1, 3; Rhetoric 2; Military 2.

## Third Year

1. Analytical Mechanics and Resistance of Materials (Theo. and Appl'd Mech. 1, 2a); Geology 5 or Metallurgical Chemistry (Chem. 15a, 6); Organic Chemistry (Chem. 14); Shop Practice (Mech. Eng'g 1).

2. Electrical Engineering (Elect. Eng'g 1); Physics 5c or 5d, or Geology 1; Industrial Chemistry (Chem. 17); Physical Chemistry (Chem. 31); Resistance of Materials and Hydraulics (Theo. and Appl'd Mech. 2b, 3); Seminary (Chem. 19).

## Fourth Year

1. Chemical Technology (Chem. 6a); Metallurgical Analysis (Chem. 15a, b) or Geology 2; Sanitary and Technical Water Analysis (Chem. 10); Steam Engines (Mech. Eng'g 16); Seminary (Chem. 19); Thesis (Chem. 11).

2. Civil Engineering 10 or Elective; Gas Analysis and Calorimetry of Fuels (Chem. 29); Metallurgy (Chem. 6b); Mechanical Engineering 13; Steam Boilers (Mech. Eng'g 17); Thesis (Chem. 11).

## EDUCATION

To graduate with a preparation for the teaching of science in the secondary schools, the student must meet the requirements of the general science course, as described on pp. 109, 110, choosing his major electives in those subjects which he wishes especially to teach, and adding to the prescribed list in general science, education 1, 3 and 7, psychology 1, philosophy 1, and at least four hours more in education or psychology. If he wishes to graduate with a thesis he may count the credits of his major line of science work, with those in education, to make the twenty hours necessary at the beginning of the senior year.

His general electives will be taken subject to the approval of the Dean of the College.

### ELECTION OF MAJOR COURSES

As a preparation for the teaching of specialties in secondary schools, students are advised to make elections of major work as follows:

Astronomy 1 or 4, 5, 14; 10 or 12 hours.

Botany 11, 1, 2; 15 hours.

Chemistry 1, 2, 3a, 5a, 9c, 31; 23 hours.

Geology 5, 1, 8, 4; 19 hours.

Household Science 1, 2, 3, 5, 9; 11 hours.

Mathematics 2, 4, 6, 8a, 10, 11; 20 hours.

Physics 1 and 3 or 2a, 5a, 6a; 13 to 16 hours.

Physical Geography (Geol. 8); 5 hours.

Physiology 4, 5f; 7 hours.

Zoölogy 10, 1, 2, 9, 17; 19 hours. Entomology 3 may be profitably added to the above.

## HOUSEHOLD SCIENCE

It is the purpose of this course to give women a liberal education with a basis of pure and applied science, and to

provide for those specializing in science an opportunity for the correlation of their work with special applications of science to the home. To graduate in household science a student must take the studies of the general prescribed list (p. 108), including the first alternative in chemistry, and in addition the following studies especially prescribed for this course:

Art and Design 1, 16, 19; 5 hours.

Botany 1, 5; 10 hours.

Chemistry 5a or 20, 5c; 5 to 10 hours.

Economics 1 and 16 or 17; 7 hours.

Household Science 1 to 9; 23 hours.

Physics 2a; 4 hours (1st semester).

Physiology 4; 5 hours.

Zoölogy 10; 5 hours.

Additional subjects sufficient to make the total of 130 hours' work required for graduation may be taken, subject to the approval of the Dean of the College, from any courses offered by the University.

#### PROSPECTUS OF THE REQUIRED COURSES

##### First Year

1. Art and Design 1b; Chemistry 1; Mathematics 4; Rhetoric 2; Zoölogy 10.
2. Household Science 1; Chemistry 3b and 4; Botany 1; Rhetoric 2.

##### Second Year

1. Chemistry 5a or 20; German 1; Household Science 6, 7; Art and Design 16, 19.
2. Chemistry 5c; German 3; Botany 5; Art and Design 16, 19; Household Science 5.

##### Third Year

1. Economics 1; German 4; Household Science 2, 4; Physics 2a; Architecture 29.
2. German 5 or 6; Household Science 3, 8; Economics 16 or 17.

##### Fourth Year

Household Science 9.

See elective list and requirements for graduation.

## MATHEMATICS

To graduate in mathematics, the candidate must take the subjects of the prescribed list on p. — (including the first alternative in chemistry),\* and also mathematics 2, 6, 8a, 8b, 10, 11, 16, 17. He must, further, take 20 hours' work from the list of major electives printed on p. —, which shall include the preparation of an acceptable mathematical thesis (mathematics 15), and ten hours in some line of applied mathematics. The remaining work necessary to complete the 130 hours required for graduation may be selected from any university offerings subject to the approval of the College Dean.

## PROSPECTUS OF PRESCRIBED COURSES

## First Year

1. Mathematics 1 or 2, and 3 or 4; German 1 or 4; Chemistry 1; Military 2; Physical Training 1, 3 or 7, 9.
2. Mathematics 6; Chemistry 3a or 3b, 4; German 3 or 5 or 6; Military 1, 2; Physical Training 1, 3 or 7.

## Second Year

1. Mathematics 8a; German 4; Rhetoric 2; Military 2.
2. Mathematics 10, 11; German 5 or 6; Rhetoric 2; Military 2.

## Third Year

1. Mathematics 8b, 16; Applied Mathematics.
2. Mathematics 8b, 17; Applied Mathematics.

## Fourth Year

1. Mathematics 15.
2. Mathematics 15.

## PHYSICS

To graduate from a special course in physics a student must take the studies of the general prescribed list (p. 108), including the first alternative in chemistry, together with the following studies especially prescribed for this course.

Mathematics 1 or 2, 6, 8a (or 7 and 9); 12 to 19 hours.  
Physics 1 and 3, 5a, 6a, 10; 21 to 24 hours.

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\* Physics 1, 3, may be substituted for this requirement in chemistry.

He must further choose from the major elective list (p. 108) physics courses sufficient to bring the total of his credits in physics up to 30 hours, together with additional subjects taken from any university offerings, but subject to the approval of the College Dean, sufficient to complete the graduation requirement of 130 hours. He must also file a thesis approved by the head of his department in the line of his major work.

### PROSPECTUS OF REQUIRED COURSES

#### First Year

1. Advanced Algebra and Trigonometry (Math. 2, 4); German 1 or 4; Chemistry 1; Rhetoric 2; Military 2; Physical Training 1, 3 or 7, 9.

2. Analytical Geometry (Math. 6); German 3 or 5 or 6; Chemistry 3b, 4; Rhetoric 2; Military 1, 2; Physical Training 1, 3 or 7.

#### Second Year

1. Physics 1 or 2, 3; Differential Calculus (Math. 7 or 8a); Rhetoric 2; German 4; Military 2.

2. Physics 1 or 2, 3; Integral Calculus (Math. 9); Rhetoric 2; German 5 or 6; Military 2.

#### Third and Fourth Years

Physics 5a, 6a, and 10.

### COURSE PRELIMINARY TO MEDICINE

To graduate in a general science course, arranged with special reference to medical study following, the student must take the subjects on the general prescribed list, page 108 (including the second alternative in chemistry), and the following list of studies especially prescribed for this course:

Art and Design 1.

Chemistry 9c; 2 hours.

Botany 5; 5 hours.

Latin.\*

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\* Those who offer Latin for entrance must take German in this course; those who offer German for entrance should take its equivalent in Latin before going on with German in the University.



Physics 2a; 8 hours.

Physiology 1,\* or 1 and 2.†

Psychology 2; 5 hours.

Zoölogy 10, 2, 3; 16 hours.

Additional studies sufficient to make up the full requirement of 130 hours may be chosen from any university courses subject to the approval of the Dean of the College.

The prescribed studies should be taken according to the following prospectus:

### PROSPECTUS OF PRESCRIBED COURSES

#### First Year

1. Art and Design 1; Elementary Chemistry (Chem. 1); Rhetoric and Themes (Rhet. 2); Military 2; Physical Training: for Men 1, 3; for Women 7, 9; Trigonometry (Math. 4); Zoölogy 10.

2. Descriptive Inorganic Chemistry (Chem. 2); Qualitative Analysis (Chem. 3a); Rhetoric and Themes (Rhet. 2); Military 1, 2; Physical Training: for Men 1, 3; for Women 7; Zoölogy 2.

#### Second Year

1. German 1 or 4, or Latin; Zoölogy 3; Quantitative Analysis (Chem. 5a); Military 2; Physics 2a.

2. German 3, or 5 or 6 or Latin; Zoölogy 3; Organic Chemistry (Chem. 9, 9c); Military 2; Physics 2a.

#### Third Year

1. German 4; Psychology 3; Physiology 1.

2. German 5 or 6; Physiology 1; Bacteriology (Bot. 5); Electives.

#### Fourth Year

All Electives.

To those who take this full four years' course the degree of bachelor of arts is given. Students passing to the Medical College at the end of the above three years' university work will receive advanced credit there for the following subjects:

Chemistry (general, organic, qualitative and quantita-

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\*Sufficient if three-year course is taken.

†Recommended if full four-year course is taken.

tive analysis, and Toxicology), Biology (Zoölogy), Physiology, Normal Histology, Embryology, and Bacteriology.

Upon completion at the Medical College of the work in human anatomy, physiology of the special senses and of the nervous system, therapeutics, general pathology, pathological anatomy, and surgical pathology\* (virtually one year's work), the degree of bachelor of arts will be given at the University at the Commencement next following.

### LIBRARY SCIENCE†

To graduate with the degree of bachelor of arts in library science the candidate must take the subjects of the prescribed list on page 108 (including the first alternative in chemistry), and also library science 1, 2, 3, 4, 7, 14. He must further take 40 hours' work from the list of major electives, and additional studies necessary to complete the 130 hours required for graduation, which may be selected from any University offerings subject to the approval of the College Dean.

### PROSPECTUS OF PRESCRIBED COURSES

#### First Year

1. Art and Design 1; Chemistry 1; Mathematics 3 or 4; Military 2; Physical Training 1, 3 or 7, 9.
2. Chemistry 3b, 4; Military 1, 2; Physical Training 1, 3 or 7.

#### Second Year

1. German 1; Military 2.
2. German 3; Military 2.

#### Third Year

1. German 4; Rhetoric 2.
2. German 5 or 6; Rhetoric 2.

#### Fourth Year

1. Library 1, 2, 3, 4, 7, 14.
2. Library 1, 2, 3, 4, 14.

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\*See Bulletin of the College of Medicine of the University of Illinois, June, 1903, pages 24 to 27.

†See p. 134.

## DESCRIPTION OF DEPARTMENTS.

## ART AND DESIGN

The general character of the work of this department is described on pages 85, 87.

## ASTRONOMY

Courses in astronomy are given for students who desire only a general acquaintance with the subject, and also for those who wish to take up the science from its technical side.

The Astronomical Observatory contains a 12-inch equatorial telescope, a 3-inch combined transit and zenith telescope, both by Warner and Swazey, and Brashear, two small equatorials, a Riefler clock, three chronometers, and a number of small instruments for student use. A master clock for the electrical control of the various clocks on the University campus is mounted in the clock room of the Observatory.

## BOTANY

Fifteen courses of instruction are offered in this subject. The courses numbered 1 and 2, each of one semester, are intended to serve the double purpose of an introduction to the work which follows for students making botany a specialty, and to afford an opportunity to gain the general facts of the science and to acquaint themselves with the methods of instruction. To a very large extent natural objects are studied rather than books, but constant endeavor is made to introduce students to pertinent existing literature.

The botanical laboratories are: One of large size with full equipment of microscopes, microtomes, aquaria, models, charts, etc., for general work; one specially arranged for instruction and research in vegetable physiology, having attached a glazed structure, two stories in height, adapted to facilitate experiments upon living plants and to grow specimens required in the laboratories; one fitted up for bacteriological instruction and investigation (in agricul-

tural building) supplied with the necessary apparatus and materials; and several smaller apartments for special purposes.

The department is provided also with a room for the herbarium, and facilities for work in connection therewith; workrooms for the preparation of specimens; storage-rooms for apparatus, utensils, reagents, and materials; dark room for photography, and rooms for offices.

Special attention has been given to parasitic fungi; and the collection of specimens and of literature upon the subject is ample for various lines of original investigation.

## CHEMISTRY

The chemical offerings include courses of instruction in general elementary, inorganic, organic, physical, and theoretical chemistry, and several lines of qualitative and quantitative analysis. (See *Chemistry* in DESCRIPTION OF COURSES, p. 191.)

The first year is devoted to the consideration of general descriptive inorganic chemistry and qualitative analysis, the first half of the second year is occupied with courses in quantitative analysis, both gravimetric and volumetric, and the second half year is given to general organic chemistry. The work of these two years and that of the first half of the third year, which is devoted to more advanced organic chemistry, is prescribed for all students of the chemical courses.

Aside from this prescribed work there are offered numerous electives in chemistry, which, by judicious selection, afford opportunity for specialization along any of the lines of analytical, pharmaceutical, technological, or pure chemistry.

## APPLIED CHEMISTRY

In this department there are offered ten separate courses in technological subjects. These require as preliminary

work the seven general and analytical courses. They may be further supplemented by special advanced work along some chosen line. Frequent visits are made to metallurgical and other works employing chemical processes.

### EDUCATION

For a description of this department, see p. 87.

### ENTOMOLOGY

This department utilizes for purposes of instruction the entomological collections, library, and equipment belonging to the University or made immediately available to students by the State Laboratory of Natural History and the office of the State Entomologist, both permanently established here. The entomological work of the Natural History Survey, now prosecuted continuously, and the scientific and economic studies of the State Entomologist and his assistants, give entomological students extraordinary privileges of experience in the laboratory, the office, and the field, in both scientific and economic work.

The instructional equipment of this department consists of a special laboratory for students, with an ample general apparatus for field work, and two special collections, one for reference by students engaged in the determination of species, and the Bolter collection of 120,000 specimens—maintained separately by the University and open to advanced students under suitable restrictions. The department also owns numerous *papier-maché* models, a collection of wall charts, and many microscopic slides especially prepared for students' use.

### FRENCH

The first year's work in French is so arranged as to prepare scientific students to read the literature of their major subjects. See also Romanic Languages on page 90.

## GEOLOGY

In this department six courses are offered in geology, three in mineralogy, one in paleontology, one in physical geography, and one in meteorology.

The laboratories are supplied with all the apparatus and tools necessary to carry forward the courses offered, and the lecture room is fully equipped with maps, charts, models, and other illustrative material.

The collection of fossils comes principally from the paleozoic, but includes a representative series from the higher groups. It contains 49,000 specimens (seven hundred and forty-two of the types described in the reports of the Illinois geological surveys are included) and 200 thin sections of corals and bryozoa.

The collection of minerals contains 12,000 specimens, and that of rocks 9,000 specimens, among which is a large number of polished granites, marbles, and other ornamental building stones, 1,000 thin sections of rocks and minerals, and 575 crystal models.

There is also a collection of Illinois soils containing 104 specimens; and a large collection of Illinois clays with their manufactured products.

## GERMAN

The German required in the College of Science is intended to prepare the student to read the literature of his major study. See also page 88.

## HOUSEHOLD SCIENCE

For a description of this department see page 133.

## LIBRARY SCIENCE

See Library School, p. 140.

## MATHEMATICS

All senior and graduate students who make mathematics their major are required to take in connection with their thesis a year's work (three-hour study) in the mathematical seminary, where the results of their investigation are presented and discussed.

Courses 12, 13, 14, 15, 18, 20, 21, 22, 23, 24, 25, and 26 may count either as graduate or undergraduate work.

The department is supplied with eighty-five of Brill's mathematical models. The collection includes an excellent set of plaster models illustrating the properties of surfaces of the second order, a set of string models for ruled surfaces, a set of paper models illustrating the real circular sections of certain conicoids, a complete set of Brill's models for the theory of functions, and a collection of surfaces of third order.

## MILITARY SCIENCE

See pages 268, 309.

## PHYSICAL TRAINING

See page 311.

## PHYSICS

The department offers a lecture course in general descriptive physics with class-room experiments, extending through the year, and accompanied by an introductory laboratory course in physical measurements. This is followed by two courses, one experimental and the other theoretical. In the experimental course the student is trained in the most exact methods of making the fundamental physical measurements and taught how to discuss his results. The theoretical course running parallel to this discusses, with the aid of elementary calculus, the theory of some of the main subjects of physics. In the senior year the student is supposed to take up some special problem for investigation and to center his laboratory work about that. An advanced

mathematical course is also offered for those who wish to follow the most advanced theories and results of the science.

### PHYSIOLOGY

The special objects of the courses in physiology are as follows: (1) To give prospective students of medicine a detailed practical knowledge of the normal histological structure and vital processes of the body, and a working familiarity with the instruments of precision used in the investigation of disease. (2) To give students of all branches of biology a training in deducing logically necessary conclusions from data obtained by their own observations. (3) To furnish such a knowledge of physiology as will serve as a basis for future studies in hygiene.

The department of physiology occupies five rooms in Natural History Hall; a general laboratory, a lecture room, a private laboratory, and an advanced laboratory on the top floor, and an animal room in the attic. The general laboratory, 35 by 56 feet, is fitted at one end with desks for chemical and similar work, and at the other end with tables for use with the microscope and other apparatus requiring a stable support.

### PSYCHOLOGY

The laboratory is well equipped with materials and apparatus for a large number of class experiments upon sensation, which the student is required to conduct himself, and of which a careful record is kept. The higher mental functions are then studied experimentally, and the experimenter held responsible for the purity of the experimental conditions and the method of procedure.

A full line of periodical literature is made accessible by the University, and this serves as a basis of reports in the seminary.

For original research the laboratory is well equipped with suitable apparatus and every incentive is given toward a high grade of work.



## ZOOLOGY

Students ordinarily begin their work in zoölogy with course 10 (introductory zoölogy), of which only a part, taken as a fractional course, will be required of those who have an entrance credit in zoölogy or biology. The courses are so organized as to lead through zoölogy 10, 1, and 2 to the course especially designed for teachers (zoölogy 9), or to advanced zoölogical work; through zoölogy 10 and 1 (invertebrate zoölogy) to general entomology; through zoölogy 10 and 2 (vertebrate zoölogy) to embryology and physiology and the University preparation for medical study.

The equipment of the zoölogical department is contained in three students' laboratories, an instructor's laboratory, a lecture room, a private office, a store room, and a dark room for photography. Advanced and graduate students have the use of the library and equipment of the State Laboratory of Natural History, which occupies rooms in Natural History Hall.

# COLLEGE OF AGRICULTURE

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## AIMS AND SCOPE

The College of Agriculture offers an education designed to fit one for the business of farming, and at the same time to furnish a means of culture. This education is, therefore, partly technical and partly cultural. Its end is the training of students to be not only successful farmers, but good citizens and successful men as well.

Of the courses leading to graduation in the College of Agriculture, the technical portion constitutes about one-half of the entire work of the student, the sciences nearest related to agriculture about one-fourth, and the remaining portion is made up of language, literature, and electives chosen from any subjects taught in the University.

The College also offers, through the department of household science, a variety of courses especially treating of the affairs of the home.

## METHODS OF INSTRUCTION

Of the twenty-four instructors in technical subjects, twenty-one devote their entire time to agriculture. The student is brought into close practical contact with his subject. He takes levels, lays tile, tests the draft of tools, traces root systems of corn and other crops, tests germination of seeds, determines the fertility in soils and the effects of different crops and of different rotations upon soil fertility. He does budding, grafting, trimming, and spraying, and works out problems in landscape gardening. He tests milk,

operates separators, makes and judges butter and cheese. He studies cuts of meat and samples of wool, judges a great variety of animals, and has practice in diagnosing and treating their diseases.

### EQUIPMENT

The College keeps on deposit several thousand dollars' worth of plows, cultivators, planters, cutters, shellers, grinders, mowers, binders, engines, etc., received from the manufacturers. It has extensive collections of agricultural plants and seeds and their products. Laboratories are well equipped with apparatus and appliances for the study of manures, fertilizers, fertility of soils, soil physics, soil bacteriology, germination of seeds, corn judging, etc. The grounds of the University and the fields and orchards of the Experiment Station are always available for illustration in class work. An illustrative series of colored casts of fruit and enlarged models of fruits and flowers, collections of seeds and woods, cabinets of beneficial and noxious insects, with specimens of their work, photographs, maps, charts, drawings, lantern slides,—all afford valuable material for study and illustration.

Specimens of Morgan horses; Shorthorn, Hereford, Aberdeen-Angus, Jersey, Ayrshire, and Holstein-Friesian cattle; Shropshire, Merino, and Dorset sheep, and Berkshire swine afford material for judging. This material, moreover, is largely increased by loans from prominent herds. In the dairy department is a complete outfit for a milk-testing and for cream separation and butter and cheese making. The department of veterinary science owns a collection illustrating *materia medica*, a collection of pathological specimens illustrating special abnormal bony development, and a *papier-maché* model of a horse, capable of dissection, and showing every important detail of structure. In addition are levels, lanterns, microscopes, and cameras. an extensive list of agricultural journals, a complete file of experiment station bulletins from all the states, and an

excellent assortment of standard reference books, including nearly all the pedigree registers published.

## DESCRIPTION OF DEPARTMENTS

### AGRONOMY

The department of agronomy, with a staff of six, gives instruction in those subjects which relate especially to the field and its affairs, as drainage, farm machinery, field crops, the physics and bacteriology of the soil, manures, rotation and fertility, the history of agriculture, farm management, and comparative agriculture. The object is to acquaint the student with the facts and principles connected with the improvement of soils, the preservation of fertility, the nature of the various crops and the conditions governing their successful and economic production, and with the development of agriculture.

### ANIMAL HUSBANDRY

In this department five instructors give courses covering the separate study of sheep, swine, and beef cattle, and their products; heavy and light horses, with their care and training; the management of farm herds, and the principles and practice of feeding and of breeding. The purpose is to familiarize the student with animals, first as to their fitness for specific purposes; second, as to their care and management; third, as to their improvement by breeding; and fourth, as to the commercial production of animal products.

### DAIRY HUSBANDRY

Four instructors give extended courses in the study of milk and its economic production; the characteristics of the dairy cow and the management of dairy farms; the separation of cream, and the making of butter and cheese; factory management; dairy bacteriology; city milk supply and the standardizing and pasteurizing of milk and cream.

### HORTICULTURE

Five instructors conduct courses in orchard management, small fruit culture and vegetable gardening, nut

culture, floriculture, landscape gardening, and forestry; in fruit propagation, greenhouse management, and the evolution of cultivated plants; and in commercial horticulture and nursery management. The purpose is to acquaint the student with the principles and practice of fruit raising and vegetable gardening, both for home and market, and with successful methods of combating insect and fungus enemies.

#### HOUSEHOLD SCIENCE

The department of household science stands for a recognition of the importance of adequate and proper training for home duties.

The courses of instruction given in the department are planned to meet the needs of two classes of students, viz.: (a) those students who specialize in other lines of work, but desire a knowledge of the general principles and facts of household science; (b) those students who wish to make a specialty of household science by a comprehensive study of the affairs of the home, together with the arts and sciences whose applications are directly connected with the management and care of the home.

The department occupies the entire second floor of the north wing of the agricultural building, and is supplied with laboratories, apparatus, and illustrative material, such as charts, specimens of various kinds of building material, and exhibits illustrating the chemical composition and products obtained in the manufacture of certain foods.

#### THREMMATOLOGY

The improvement of domesticated animals and plants and the principles on which it rests are made the special subject of one instructor, who conducts a half-year course of study supplemented by extensive reference readings.

#### VETERINARY SCIENCE

Courses are offered in veterinary anatomy and physiology, in veterinary materia medica, and in the theory and practice of veterinary medicine and surgery. The object is to acquaint the student with the structure and activities of

animals in health, the characteristic symptoms of disease, and the materials and methods of successful treatment. He therefore makes careful study of the structure of domestic animals and of the nature of their derangements and the characteristic action of remedial agents.

The subjects are taught by lectures and text books aided by demonstrations with use of skeletons, and of other apparatus, as follows: Dr. Auzoux's complete model of the horse, which is in ninety-seven pieces and exhibits 3,000 details of structure; *papier-maché* model of the horse's foot; the teeth of the horse; digestive organs of the ox and the generative organs of the cow, and specimens of morbid anatomy. Observations are made and practice obtained at the free clinics, which are held at the Veterinarian Infirmary once a week, and by post-mortem examinations as cases present themselves. The students assist in the operations, and thus obtain a practical knowledge of the subject. The treatment of disease is illustrated by specimens of all the latest and best remedies used in individual cases.

#### COURSES OFFERED.

The College of Agriculture offers the following courses, leading to the degree of Bachelor of Science:

1. Agricultural Course.
2. General Course in Household Science.

#### AGRICULTURE COURSE

This course is designed to fit young men for the business of farming and the relations of country life. Following are the conditions to be observed by prospective graduates:

#### CLASSIFICATION OF SUBJECTS

##### PRESCRIBED\*

Agronomy 6, 9, 12; 12½ hours.

Animal Husbandry 7; 2½ hours.†

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\* Students not offering six credits in foreign language for admission will take two years of foreign language in the University as a condition of graduation.

† See threnmatology and elective list A.

Botany 12; 1 hour.\*\*\*  
 Botany 1 or 11, or Zoölogy 10; 10 hours.\*\*  
 Chemistry 1, 3b, 4, 13a; 15 hours.‡  
 Dairy Husbandry 10; 3 hours.†  
 Economics 2; 2 hours.  
 Entomology 4; 2 hours.  
 Horticulture 1, 10; 8 hours.  
 Household Science 8; 1 hour.  
 Library Science 12; 1 hour.  
 Military 1, 2; 5 hours.  
 Physical Training 1, 3 or 7, 9; 2 or 3 hours.  
 Rhetoric 2; 6 hours.  
 Thremmatology 1; 5 hours.

#### ELECTIVE

##### List A

Animal Husbandry 1 to 5, 10 to 14, 16 to 21; 24½ hours.  
 Dairy Husbandry 2; 2½ hours.

##### List B

English 1, 16; 3 to 8 hours.  
 Rhetoric 3; 4 to 8 hours.

##### List C

Agronomy 1; 2 to 5; 7, 8, 10, 11, 13 to 18; 1 to 63 hours.  
 Animal Husbandry 1 to 5, 10 to 14, 16 to 21; 1 to 43 hours.  
 Dairy Husbandry 1 to 9, 11, 12; 2½ to 40 hours.  
 Horticulture 2 to 9, 11 to 19; 2 to 72 hours.  
 Veterinary Science 2, 4, 5; 5 to 20 hours.

#### SUGGESTIONS FOR OPEN ELECTIVES

Certain subjects not in the above lists are offered especially for agricultural students, viz., Botany 7, Economics 16c, Geology 12, and Meteorology (Geology 14). These studies will be found of unusual interest and value to students of this college.

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\*\* Not including the botany and entomology specified in this list.

‡ Chemistry 3 may be taken in lieu of Chemistry 3b and 4.

\*\*\* Lectures and demonstrations upon bacteria and allied organisms.

## REQUIREMENTS FOR GRADUATION

Students are graduated with the degree of bachelor of science upon completing the following work:

1. The studies of the prescribed list.
2. Sufficient electives to make a final total of 130 semester hours, of which not less than four and one-half shall be chosen from elective list A, not less than three from elective list B, not less than twenty-five from elective list C, and the remainder from any subjects offered in the University, which the student is prepared to take.
3. An acceptable thesis upon an approved course of investigation, and for which from five to ten semester hours will be allowed, according to the nature of the subject. Credit for this will be included in the amount to be earned by elective work from lists A and C.

## COURSE OF INSTRUCTION

*Leading to the degree of B.S. in Agriculture*

The following outline shows the most favorable time and order in which the prescribed studies of the course can be taken; and, though it is not insisted that the scheme be followed, it is strongly recommended in the interest of avoiding conflicts.

**First Year**

1. Botany 12 (8; T., Th.); Chemistry 1 (3, 4); Library Science 12 (6:30 M.); Military 2; Physical Training 1, 3; Rhetoric 2 (8; M., W., F.); Electives in Agriculture.
2. Agronomy 6 (1, 2); Chemistry 3b (3, 4); 4 (3, 4); Military 1, 2; Physical Training 1; Rhetoric 2 (8; M., W., F.); Electives in Agriculture.

**Second Year**

1. Chemistry 13a (3, 4); Entomology 4 (1, 2; Tu., Th.); Horticulture 1 (6, 7); Rhetoric or English; Electives.
2. Botany 1 (6, 7) or Zoölogy 10 (6, 7); Household Science 8 (8); Military 2; Rhetoric or English; Electives.

**Third Year**

1. Agronomy 9 (1, 2); Dairy Husbandry 10 (3; M., W., F.); Botany 2 (6, 7) or Zoölogy 2 (Lec., 4; Tu., Th., arrange Lab.); Economics 2 (8; M., W.); Electives.



2. Agronomy 12 (1, 2); Horticulture 10 (4; M., W., F.); Electives.

#### Fourth Year

1. Animal Husbandry 7, first half (3); Thremmatology 1 (4); Electives.

2. Electives, including Thesis.

### SPECIAL STUDENTS

In addition to those who are candidates for a degree the College receives as special students, for a longer or shorter period, any persons who are qualified to pursue with profit the subjects they desire. Classes are conducted in over eighty different subjects, all of which are open to election by both regular and special students under such restriction as shall insure sufficient preparation for the particular subject. Students may enter at any time, but it is greatly preferred that they enter at the beginning of classes; viz., at the opening of the year in September, at the beginning of the second semester about February first, or at the middle of either semester, at which time half semester subjects begin.

The person who remains but a short time will therefore follow but a few lines of work. If his preparation is deficient he will be confined to those subjects that require little or no previous preparation. He will also be confined to an amount which he can do thoroughly well, and will thus perform substantially the same grade of work as regular students. As the course is largely elective, credit is given for what is actually achieved.

### GENERAL COURSE IN HOUSEHOLD SCIENCE

This course is designed to provide an education in those branches that especially serve the interests of women students. The work of the course is ranged around the subject of household science, which is treated as one of a strictly scientific character, and the training in it, while not losing

sight of the practical aspects, is therefore severely scientific. In connection with the work in household science, and as a necessary preparation for it, the student must take several courses in pure science.

Although the main work is, therefore, scientific and technical, the importance of an artistic and literary training for home life is not lost sight of, and ample opportunity is given for a study of subjects of that character. Indeed, so important are they deemed that a considerable amount of art and design, English, history, and foreign language is required of students in the course. Opportunity is given, moreover, for increasing the amount of liberal, scientific or technical subjects by leaving the way open for a certain number of electives. Of the one hundred and thirty hours required for graduation, ninety-four are provided for in the prescribed list and the restricted electives of List A. The other hours of credit necessary for graduation may be taken, subject to the approval of the Dean of the College, from any courses offered in the University. It is desirable, however, that students should not scatter their work too much; and they are advised, therefore, to choose, to a certain extent at least, electives which are in close correlation with the subjects in the list prescribed, or of restricted elective work. Holders of scholarships in household science take the course as laid out here. Variations from it can be made only by special permission of the Council of Administration on recommendation of the faculty of the College.

## CLASSIFICATION OF SUBJECTS

### PREScribed

Architecture 29; 2 hours.

Art and Design 1, 16, 19; 5 hours.

Botany 11; 5 hours.

Chemistry 1, 3b, 4; 10 hours.

English 1, 4 or 23; 7 or 8 hours.

History 3; 5 hours.

Household Science 1, 2, 3, 6; 10 hours.

Library 12; 1 hour.

Physiology 4; 5 hours.

Physical Training 7, 9; 3 hours.

Rhetoric 2; 6 hours.

In addition to the above, students will elect as follows:

Botany or Zoölogy, 5 hours.

English or Rhetoric, 5 hours.

Foreign Language, 20 hours.

\*Elective List A., a minimum of 4 hours.

#### ELECTIVES

##### List A

Architecture 6; 4 hours.

Horticulture 10; 3 hours.

Household Science 5, 7; 4 hours.

Economics 1 and 16 or 17; 7 hours.

Physics 2; 4 hours.

#### COURSE OF INSTRUCTION

##### *Required for the Degree of B.S. in General Course*

##### First Year

1. Botany 11; Chemistry 1; Household Science 2; Rhetoric 2; Physical Training 7, 9.

2. Chemistry 3b, 4; Household Science 1; Rhetoric 2; Art and Design 1; Physical Training 7, 9.

##### Second Year

1. English 1; Art and Design 16; Foreign Language; Household Science 6; Architecture 29.

2. Household Science 3; English 4 or 23; Foreign Language.

##### Third Year

1. Art and Design 19; History 1; Library 12.

2. Physiology 4; History 1.

##### Fourth Year

See elective list and requirements for graduation.

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\* If Physics has not been offered for entrance, its equivalent should be elected.

# GRADUATE SCHOOL

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## ORGANIZATION

The Council of Administration of the University is in charge of the Graduate School, and the executive officer, to whom communications should be addressed, is the Dean of the Graduate School.

## ADMISSION AND REGISTRATION

Graduates of the University of Illinois, and of other colleges and universities of approved standing, may be admitted to membership in the Graduate School upon presentation of their credentials. Other persons suitably qualified may gain admission by special vote of the Council of Administration upon such conditions as may be imposed in each case. Candidates for admission may secure application blanks from the Dean or from the Registrar of the University, and these, properly filled out, should be filed, together with such documentary matter as may be presented, showing qualifications for membership in the school, with the former officer. This should be done not later than the time set for registration in September. Admission may be granted at other times, but the time limit required for degrees counts from the date of the certificate of membership.

With the exceptions named below, all members of the Graduate School are required to be in regular attendance at the University, and to do all the work for which they are registered in the departments to which such work belongs. In case of absence on leave, or when absence is

necessary to carry on investigations included in approved courses of study, the requirement of continuous residence may be modified by the Council of Administration.

Graduates of this University may be admitted to non-resident membership in the Graduate School, as candidates for second, or masters', degrees; and all members of the School who have completed the residence required for advanced degrees may register as non-residents while completing the work required for such degrees.

Members of the Graduate School register with the Dean during the registration days, at the beginning of the collegiate year.

Those only are enrolled as members of the Graduate School who enter upon or pursue approved graduate work as explained under "Studies and Examinations" below. Resident graduates who are candidates for bachelor degrees are not included, neither are those who, not working for any degree, have registered without a major subject approved as graduate work.

### STUDIES AND EXAMINATIONS

As far as can be indicated by a statement of time, full work for a graduate student consists in the use of forty-five hours a week in the lecture rooms, laboratories, etc., and in private study. Assignments of work are made upon this basis; but great variations naturally result from the subject-matter in hand, and from the abilities of individuals.

Each student must select one principal line of study, and upon this major subject at least one-half of his work must be done; and any greater proportion of his time, up to the whole of it, may thus be devoted if proper approval is had. When work upon the selected major subject is not arranged to require all of the student's attention, he must choose one or two minor subjects, as may be necessary to complete a full course of study. Usually, at least one minor subject should be taken. Not more than two may be taken at the same time.

The major study must be approved as graduate work for this University; that is, it must be of true graduate grade, preceded by an amount of undergraduate preparation determined by the officers in charge. The minor subjects may, under approval, be chosen from the offerings to graduates; or, except in the College of Engineering, from undergraduate courses of advanced grade. But all candidates for advanced degrees must direct their selection toward some well-defined end, determined for the most part by the character and purpose of the major study.

In the College of Engineering the major line of study must form not less than two-thirds of the entire graduate course, and must be one course, or some combination of the courses enumerated under the heading of "Courses for Graduates" given with each departmental subject; thus one candidate for an advanced degree may have assigned him as his major subject Architecture 101, 103, and 107; another, Mechanical Engineering 104 and 107; and the extent to which each of the enumerated subjects is to be pursued may be indicated in credit hours upon the application blanks.

All courses of study leading to degrees in the Graduate School are subject to approval, first, by the head of the department of the University in which the major subject for each student belongs; second, by the Dean of the College including such department; and, third, by the Dean of the Graduate School. The signatures of the heads of departments in which chosen minor subjects belong must also be obtained before the list reaches the Dean of the Graduate School. The lists of studies, as finally approved, are deposited with the Registrar of the University. No changes may subsequently be made except under the same line of approvals, but extension of time may be arranged with the professors concerned and with the Dean of the Graduate School.

Examinations are required in all subjects, and reports upon these are made to the Registrar of the University.

Graduate students in undergraduate classes are examined with these classes.

The head of the department in which the student does his major work is charged with the direction and supervision of such major work, and, in a general way, with the supervision of the student's entire course of study. He fixes the time and method of all examinations not otherwise provided for, sees that they are properly conducted, and reports results to the Registrar. It is his duty also to keep the Dean of the Graduate School informed concerning all matters affecting the interests of the student, and of the School in connection therewith.

#### DEGREES AND FELLOWSHIPS

A full statement regarding the degrees conferred by the University may be found on later pages of this catalog, and in the same connection an account of fellowships. (See pp. 292, 296.)

# STATE LIBRARY SCHOOL\*

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## AIMS AND SCOPE

It is the purpose of the Library School to offer instruction (1) to students who wish to specialize in library work as a profession, and (2) to students who wish to elect liberal library courses as part of a general education.

The school was established at Armour Institute of Technology, Chicago, in September, 1893, and was transferred to the University of Illinois in September, 1897. In its ten years of existence it has advanced its entrance requirements from high school graduation to three years of university work and has extended its instruction from one year to two years. There is now offered a five years' course of study, leading to the degree of bachelor of library science. Three years of the course are devoted to general university studies, and students are urged to complete a four years' college course before applying for admission.

The fourth year combines technical and liberal work and leads to the degree of bachelor of arts in library science. The fifth year is advanced and comparative technical work with the addition of bibliographical and historical subjects. The degree of bachelor of library science is conferred on the completion of the work through this fifth year. Electives are here introduced to allow for personal preference and fitness for different positions. The practical work of the course amounts to over three months of time, counting eight hours a day, and this is more valuable, because more

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\* A special circular describing the work of the Library School in detail may be obtained on application to the Registrar.



varied, than if taken in three consecutive months in a library. Moreover, the library school student has the benefit of comparative study, while the apprentice becomes skilful in the ways of one library only.

Although elaborate methods are taught to enable students to work in large libraries where bibliographic exactness is required, stress is laid throughout the course on simplicity and economy of administration. Moreover, emphasis is constantly laid on the responsibility of the librarian to the schools and clubs and to the community at large.

It is the policy of the School that each instructor shall be engaged in active library work so that the instruction may be practical.

The general student, not a candidate for the degree of bachelor of arts in library science, may elect, in his senior year, any subject in the list of library electives for which he is prepared. Such subjects have been indicated as will help the student in general reading, in research work, in club work, or as a member of a library committee or board of trustees. For the general student who does not care to take the required fourth year of the Library School, nor to elect any regular library course, the School offers a course of fifteen lessons on the use of the library and the ordinary reference books. This course is open to students in all classes.

#### METHODS OF INSTRUCTION

There are so few text-books on library economy that instruction is given almost altogether by lecture and laboratory methods. References to books and periodicals are given for collateral reading, and individual research is encouraged. Lectures are illustrated by the collections of forms and fittings, and each student is expected to do a certain amount of practical work in the University library each day. Before completing the course, each student must have had actual experience in every department of the

library. Class room work is tested by problems, and examinations take the form of problems wherever practicable.

### LOCAL LIBRARY COOPERATION

The Library of the University of Illinois and the Champaign Public Library have systematic plans for coöperation through the Library School, in the interests of the clubs and the schools. Each woman's club in Champaign and Urbana sends its program for the year to the Library School, where a reference list is made on each subject, specifying in which library the material is to be found. A copy of each list is posted in each library. The students also make lists for the various grades of the public schools.

### EQUIPMENT

The most valuable equipment is the working library of the University.

The Library School has the complete collection of manuscript notes and problems which have been prepared since the School opened in 1893, and a collection of library reports and catalogs and of mounted samples, showing methods of administration in all departments. A collection of card catalogs of various forms has been made, including the book forms from Leyden, Holland; Cassel, Germany; and Florence, Italy; and the modern forms approved by the American Library Association. Other forms are represented by photographs.

The School has a collection of printed blanks and forms illustrating methods of administration in different types of libraries, many labor-saving devices, and samples of fittings for all departments.

A collection of cataloging rules and of classification systems is making for comparative study. A number of devices and patents, such as temporary binders, pamphlet cases, newspaper files, etc., have been contributed by inventors and manufacturers.

## REQUIREMENTS FOR GRADUATION

Credit for 98 hours, including the prescribed military and physical training, in addition to two years' technical library work, is required for graduation. The technical work must be taken at the University, but the work of the first three years may be taken at any college from which credits are accepted by transfer.

## COURSE OF INSTRUCTION

*Required for the degree of B.L.S.*

The work of the first three years must consist of the prescribed subjects, either in the College of Literature and Arts (p. 78) or in the College of Science (p. 118), together with enough electives to make at least ninety-eight hours altogether. Fifteen to eighteen hours' work\* a week, including military and physical training, must be chosen each semester. Students are advised to elect as much work as possible in modern languages, history, literature, science, and economics. Special attention is called to comparative literature and philology 1, 2, 3; statistics (Econ. 23, 24); history of American literature (Engl. 16); bibliography of history and the social sciences (Econ. 40).

**Fourth Year**

1. Elementary Library Economy (Lib. 1); Elementary Reference (Lib. 2); † Selection of Books (Lib. 3); † History of Libraries (Lib. 7); † Library Extension (Lib. 14); † Elementary Laboratory Course (Lib. 4).

2. Elementary Library Economy (Lib. 1); Elementary Reference (Lib. 2); † Selection of Books (Lib. 3); † Library Extension (Lib. 14); † Elementary Laboratory Course (Lib. 4).

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\*See page 169

† Electives for general students not candidates for degree of bachelor of arts in library science; but no library electives may be taken before the senior year.

**Fifth Year**

1. Advanced Library Economy (Lib. 5); Bibliography (Lib. 6);\* Advanced Reference (Lib. 8);\*† Public Documents (Lib. 13);\* Advanced Laboratory Course (Lib. 10); Thesis (Lib. 11).

2. Advanced Library Economy (Lib. 5); Bibliography (Lib. 6);\* Public Documents (Lib. 13);† Book-Making (Lib. 9);\*† Advanced Laboratory Course (Lib. 10); Thesis (Lib. 11).

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\* Electives for general students not candidates for degree of bachelor of arts in library science; but no library electives may be taken before the senior year.

† Electives for library students.

## SCHOOL OF MUSIC\*

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### AIMS AND SCOPE

The School of Music offers regular courses leading to the degree of bachelor of music, and furnishes opportunity to students not candidates for a degree to spend an indefinite amount of time in the study of an instrument or of the voice.

A course of artists' concerts is given each season under the management of the University Choral Society. In these concerts, to which an admission fee is charged, only artists of the best reputation appear.

The instructors in the School of Music give recitals and lectures on musical subjects during the year.

The course in the history of music, as well as the work in the University Orchestra and the University Choral Society, may be taken by regular students in other departments.

### REQUIREMENTS FOR GRADUATION

Credit for 130 semester hours,† including military and physical training credit, together with an acceptable thesis, is required for graduation. The thesis must be on a topic related to music.

Students who are not working for the degree in music may receive a statement from instructors upon completing not less than one year of college work.

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\* A special circular giving complete details of the work of the School of Music may be obtained on application to the Registrar.

† See page 169.

Special and preparatory music students are required, in addition to their practical work in music, to take a certain amount of other studies.

Students enrolled in the department of music only, pay no semester fees, but must pay the music fees. (See p. 315.)

Classes in ear-training meet twice each week. The fundamental principles of musical notation are studied thoroughly, and the ear is trained to recognize intervals, chords, etc., so that the student may eventually think music. Music students are required to attend these classes.

The sight singing classes meet twice each week. This work is required of music students and is open to any University students who desire to take it.

## CLASSIFICATION OF SUBJECTS

### PRESCRIBED

Music 1; 3 hours.

Music 2; 4 hours.

Music 3; 7 hours.

Music 4; 3 hours.

Music 5; 5 hours.

Music 7, 8, 9, 10; or 12, 13, 14, 15; or 17, 18, 19, 20; 58 hours.

French or German; 16 hours.

Italian 1; 6 hours.

Mathematics 4; 2 hours.

Military 1, 2; 5 hours.

Physical Training—

Men, 1, 3; 2 hours.

Women, 7, 9; 3 hours.

Physics 2a; 4 hours.

Rhetoric 1, 7a; 7 hours.

The remaining hours of credit may be obtained in electives offered in the College of Literature and Arts.

## MUSICAL ORGANIZATIONS

*The University Glee Club* is an organization for men. Membership is decided by competition and is limited to sixteen in number. The club meets twice a week for rehearsal.

*The Ladies' Glee Club* is an organization for the young ladies of the University, and is in charge of the head of the vocal department.

*The Mandolin and Guitar Club* is open to young men. Membership is decided by competition, and the club is associated with the Glee Club in its concerts.

*The Military Band* is conducted by the Director of the School of Music. It furnishes music for important University occasions and appears at regimental drill of the military department, besides giving several concerts during the year. Membership is limited in number and is decided by competitive examination.

*The University Orchestra* meets for a two hours' rehearsal once a week, and is open to all students who play any orchestral instrument ordinarily well.

*The University Choral Society* is conducted by the Director of the School of Music, and meets once a week for rehearsal of choral works. A small fee is charged for membership, and singers not connected with the University are admitted.

# COLLEGE OF LAW\*

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## REQUIREMENTS FOR ADMISSION

1. All applicants for admission to the College of Law must be at least 18 years of age and of good character.
2. Graduates of colleges and of scientific schools of approved standing are admitted upon diploma or certificate, without examination.
3. Graduates from any accredited high school in the state are admitted in the same way.

In the absence of proper certificates the usual examinations for admission to the freshman class of the University (p. 60) are required of those who enter as candidates for a degree.

## ADVANCED STANDING

The following classes of persons will be admitted to advanced standing:

1. Persons who produce from another law school, in good standing, certificates of having satisfactorily pursued courses in law, included in the following schedule, and of having received credit therein, *provided* that the time spent on such courses is equivalent to the time spent on the same courses in this College. Otherwise, an examination on such courses, given by the instructors in this College, must be satisfactorily passed.
2. Persons who have studied law privately, or in an attorney's office, and pass examinations prescribed by the faculty of the College.

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\* A special circular describing the work of the College of Law in detail may be obtained on application to the Registrar.



3. Members of the bar of this state, who will be admitted to the third-year class without examination, as candidates for the degree of LL.B.

### SPECIAL STUDENTS

Students who do not desire to be candidates for a degree may take one or more courses as special students, upon approval of the faculty of the College, under regulations prescribed by the University (p. 70). Such students will receive credit for work satisfactorily done, and may become candidates for graduation at any time by meeting the requirements of the College.

### METHODS OF INSTRUCTION

The methods of instruction used in this College are based largely upon the study of cases. Text-books are used to some extent, and lectures are occasionally resorted to, but the study of the case is regarded as the chief means to the attainment of legal knowledge and proficiency.

### LIBRARY AND MOOT COURT

The library consists of the leading text-books on all subjects: United States Supreme Court Reports; English Reports; Reports of the principal states of the Union; American Decisions; American Reports and American State Reports; the current volumes of the West Company Reporter System, and the leading legal periodicals.

The Moot Court is held once a week for the purpose of familiarizing the student with legal procedure. It is presided over by the Dean, Judge O. A. Harker, the other officers being elected by the law students from their own body. All second and third year students are required to be present, and to perform such duties as may be assigned them.

## LEGAL STUDY AND UNIVERSITY WORK

The Council of Administration will, upon application, in proper cases, apply credits earned in the College of Law upon other University courses.

Students matriculating in the College of Law may take any of the following courses: economics and social science, and history, subject to the approval of the Dean of the College of Law and the professors concerned. By special arrangement other work in the College of Literature and Arts may also be taken.

## COURSE OF INSTRUCTION

*Required for the Degree of LL.B.***First Year**

1. Contracts (Law 1); Torts (Law 2); Real Property (Law 3); Pleadings (Law 4); Personal Property (Law 6); Analysis of Cases (Law 33).

2. Contracts (Law 1); Torts (Law 2); Real Property (Law 3); Criminal Law (Law 5); Domestic Relations (Law 7).

**Second Year**

1. Advanced Pleading (Law 4a); Evidence (Law 8); Real Property (Law 10a); Equity (Law 12); Damages (Law 13); Carriers (Law 14); Moot Court (Law 26).

2. Advanced Pleading (Law 4a); Sales (Law 9); Real Property (Law 10b); Agency (Law 11); Equity (Law 12); Equity Pleading (Law 20); Moot Court (Law 26).

**Third Year**

1. Bills and Notes (Law 15); Trusts (Law 16); Wills (Law 18); Constitutional Law (Law 22); Corporations, private (Law 17); Moot Court (Law 26).

2. Bills and Notes (Law 15); Partnership (Law 19); Corporations, municipal (Law 24); Suretyship (Law 21); Mortgages (Law 21a); Constitutional Law (Law 22); Moot Court (Law 26).

In addition to the foregoing course of instruction, required for the degree of LL.B., the following subjects are offered as electives in the College of Law:

Insurance (Law 28); Bankruptcy (Law 30); Conflict of Laws (Law 31); Quasi-Contracts (Law 32).

## REQUIREMENTS FOR GRADUATION

The requirements for graduation with the degree of bachelor of laws are seventy-two semester hours of work. A "semester hour," as here used, means one hour per week of class-room work for one-half of a year. The degree is conferred upon the completion of the course set forth above.

## ADMISSION TO THE BAR

Under the rules of the Supreme Court of Illinois, candidates for admission to the bar of this state must have had a high school education or its equivalent, must have completed a three years' course of study in a law school or law office, and must then pass an examination to be given by the State Board of Bar Examiners.

## COLLEGE OF MEDICINE

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(For Faculty of the College of Medicine, see page 23.)

### HISTORY

The College of Medicine, the College of Physicians and Surgeons, is located on the corner of Congress and Honore Streets, Chicago, in the heart of the medical quarter of the city. It was founded in the year 1882 by a number of representative physicians and surgeons. In 1892 the College had a thorough organization, and erected a commodious laboratory building, the first building exclusively for laboratory purposes erected by any medical school in the West. Since that time it has grown with steadiness and rapidity. It became the Medical Department of the University in April, 1897.

Chicago is already the center of medical study in the United States. Since the winter of 1897-98 it has contained a larger number of medical students than any other city in the western hemisphere. These students are distributed among fourteen medical colleges, of which the College of Physicians and Surgeons is the second, as to the size of its classes, and is not outranked by any in respect to its facilities, or the scope and thoroughness of its curriculum, or in regard to the place it occupies in the esteem of the medical profession.

### REQUIREMENTS FOR ADMISSION

First, a certificate of good moral character from two reputable physicians.

Second, a diploma of an accredited high school or academy of the University of Illinois, or of a similarly accredited school of another university, whose entrance requirements are equivalent to the entrance requirements of the University of Illinois.

Third, a certificate signed by a principal of a regularly organized high school or by the examiner of the faculty of a recognized literary or scientific college or university, or by the State Superintendent of Public Instruction, or a Superintendent of Public Schools, of having successfully passed an examination in all the several branches embraced in the curriculum of a four years' high school course.

Fourth, entrance examination covering the following subjects:

1. ALGEBRA.—The subject as given in Well's Higher Algebra through quadratic equations, or the same work in Wentworth's Algebra, or an equivalent.

2. COMPOSITION AND RHETORIC.—Correct spelling, capitalization, punctuation, paragraphing, idiom and definition; the elements of Rhetoric. The candidate will be required to write two paragraphs of about one hundred and fifty words each to test his ability to use the English language. The subject as presented in Genung's Outlines of Rhetoric, Scott and Denney's English Composition, or an equivalent.

3. ENGLISH LITERATURE.—(a) Each candidate is expected to have read certain assigned literary masterpieces, and will be subjected to such an examination as will determine whether or not he has done so. The books assigned for the next year are as follows:

Dryden's Palamon and Arcite; Pope's Iliad, Books I, VI, XXII and XXIV; the Sir Roger de Coverly Papers in the Spectator; Goldsmith's The Vicar of Wakefield; DeQuincey's Flight of a Tartar Tribe; Cooper's The Last of the Mohicans; Lowell's Vision of Sir Launfal; Scott's Ivanhoe; Shakespeare's Macbeth; Milton's Paradise Lost, Books I and II; Burke's Speech on Conciliation with America; Macaulay's Essays on Milton and Addison; Tennyson's The Princess.

(b) In addition to the above, the candidate will be required to present a brief outline of American Literature. Hawthorne and Lemmon's Outline of American Literature, or an equivalent.

4. LATIN.—*First Year's Work*.—Such knowledge of inflections and syntax as is given in any good preparatory Latin book, together with the ability to read simple fables and stories.

*Second Year's Work*.—Four books of Cæsar's Gallic War, or its equivalent in Latin of equal difficulty. The ability to write simple Latin based on the text.

*Third Year's Work*.—Six orations of Cicero. The ability to write simple Latin based on the text. The simpler historical references and the fundamental facts of Latin syntax.

*Fourth Year's Work*.—The scansion of hexameter verse, six books of Virgil, with history and mythology.

An equivalent course in French or German may be substituted for the requirement in Latin.

5. GEOMETRY.—Plane Geometry, as given in Well's or Wentworth's Geometry, or an equivalent.

6. HISTORY.—At least one year in one of the following subjects: (a) The History of England and the United States; (b) General History; (c) The History of Greece and Rome.

7. PHYSICS.—The elements of physical science as presented in such text-books as Appleton's School Physics, or Avery's Elements of Natural Philosophy, or Carhart and Chute's Elements of Physics, or Gage's Elements of Physics.

8. CIVICS.—Such amount of study on the United States constitution, its history and interpretation, as is indicated by any of the usual high school text-books on civil government, is regarded as sufficient for one term. The work may advantageously be combined with the elements of political economy, or, better, the industrial history of the country.

The entrance examinations are conducted in writing by a committee, outside of the Faculty of the College of Medicine, appointed by the President of the University, and are held at the College at 10 a. m. on the days preceding the opening of each term.

## REGISTRATION

All students are required to register in the office of the Secretary immediately upon the opening of the term for the work in that term, and credit will be allowed only in the branches in which the student is registered.

## ADVANCED STANDING

Applicants holding the degree of A. B. or B. S. or an equivalent degree from a regularly established college of Arts or Science, may be given credit for work done in the branches of the medical curriculum of the first year, and may be advanced to the Sophomore Year of the four years' medical course, on condition that they comply with the entrance requirements, and that they subsequently complete the work of the Freshman Year, if not already completed, and that the work already taken shall *not* be below the standard required by this College.

Students who have completed a "medical preparatory course," equivalent to that given by the University of Illinois, and graduates of reputable schools of dental surgery, *whose course extends over two years*, may enter the sophomore class and complete their studies upon three years of attendance, provided they fulfill all other requirements for admission and graduation. *Students thus advanced may not complain of any conflict of hours, nor absent themselves from any part of the lower conflicting course*; but they may make up deficiencies in the work of one term in any other term in which such work is offered.

Students who present evidence of having attended one or more years at other medical institutions requiring an amount of work equal to that given by this College may be admitted to advanced standing, and receive credit for time and for the work which they have completed in the preceding years of the curriculum.

Graduates of medical colleges requiring an amount of work equal to that given by this College may be admitted to the graduating class without examination by complying with all the other requirements of undergraduates.

Examinations for advanced standing are held on the last two weeks preceding the opening of the term. Stu-

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\* For combined undergraduate and medical course of six years, leading to the degrees of B. S. and M. D., see p. . . .

dents who propose to apply for examination for advanced standing must present themselves at this time.

### COURSE OF STUDY

The collegiate year is divided into two terms, called respectively the winter term and the summer term. The winter term consists of a session of thirty-two weeks of actual teaching beginning October 1, 1904, and ending May 24, 1905, at which time the annual graduating exercises will be held. The summer term consists of a session of twelve weeks of actual teaching, beginning June 1, 1904. Attendance upon the winter term is required in order to secure credit for a year's work, and attendance upon four winter terms is required for graduation, except for students who are admitted to advanced standing, as set forth upon page 161. Attendance upon the summer term is optional, and the work is supplementary to the work of the winter term. Students may obtain credit for work done in certain branches, but attendance upon this term does not apply upon the required thirty-two months' attendance necessary for graduation.

The curriculum required for graduation extends over four years. During the first two years the work is confined to the sciences fundamental to practical medicine. During the freshman year this consists of work in histology, biology, embryology, chemistry, materia medica, human anatomy, and physiology. During the sophomore year the study of physiology, chemistry, and human anatomy is continued, and in addition the student takes up pathology, and bacteriology. With the junior year the study of the practical branches of medicine is begun. The student also begins clinical and bedside work, and receives instruction in medical and surgical specialties. During the Junior and Senior years 900 hours of work are required in each year. Of this 900 hours, approximately 600 are "Specified," and the balance "Elective." This plan permits a student to specialize along the lines best suited to his purpose. A certain amount



of clinical work is required, but the student is permitted to elect the work offered by all clinical teachers and permitted to attend all lectures and clinics.

## BUILDINGS AND EQUIPMENT

In the summer of 1901 the College purchased from the Board of Education of Chicago the West Division High School property, situated adjacent to the original college building. This purchase, which represents, including alterations, an expenditure of over a quarter of a million of dollars, gives the College three-fourths of a city block lying between Harrison and Congress, and Honore and Lincoln streets, and a group of buildings which, for the purpose of medical education, are unsurpassed in the United States, and equalled in only a few instances in the world. The new College building is a brick and stone structure two hundred feet long by one hundred and ten feet deep, and five stories high. It fronts on four streets and stands on a lot entirely adequate in size for such a building, so that it is freely supplied with air and light. The building contains three large lecture rooms with a seating capacity of two hundred each, a clinical amphitheater modeled on the most modern plans for perfect asepsis, with a seating capacity of over three hundred; an assembly hall with a seating capacity of twelve hundred, and many recitation rooms seating from thirty to one hundred and fifty students each. It also contains special laboratories for physiology, chemistry, pathology, bacteriology, biology, materia medica, and microscopical or chemical diagnosis, each capable of accommodating from fifty to two hundred students at a time. The general equipment of the building and the special equipment of the laboratories are in keeping with the size and character of the building, and may challenge comparison with those of any other school in the country. The assembly hall is so constructed that it may be converted into a gymnasium. It is provided with all the apparatus of a well

equipped gymnasium, including numerous shower baths, and gives the College a gymnasium which is fully equal to those possessed by the better class of undergraduate colleges. The use of the gymnasium is free to all the students of the College, and a competent instructor in physical training is employed.

The original college building has been remodeled and is now occupied by the School of Dentistry which the College has established, and by the laboratories of anatomy.

### HOSPITALS AND HOSPITAL FACILITIES

The West Side Hospital, containing 125 beds, owned by members and friends of the Faculty, is connected to the College by a corridor, and its clinical facilities thus made easily available for the instruction of the students. Adjacent to the College building is the Cook County Hospital, with approximately 1,000 patients, supplying a quantity and variety of material which no private institution can command. In the amphitheater of the hospital, much of the clinical instruction of the College is given. In addition to the foregoing resources, members of the Faculty are connected with various other hospitals situated in different parts of the city, and draw freely upon them for the benefit of the students.

### QUINE LIBRARY

The library is located in the College building, and is justly considered the pride of this medical school. It represents the first attempt west of the Alleghanias to place at the unrestricted disposal of medical students a comprehensive collection of standard medical publications, and ranks to-day second in size among the medical libraries of Chicago. It was named in honor of the present Dean of the institution, who has contributed so much to its development and support by his continued interest and generosity, and who recently provided for its future growth by a munificent endowment.

Text-books and monographs and numerous files of foreign and domestic current literature crowd its shelves. The bound volumes now number 7,200, and include practically every important text-book and monograph on medical subjects in the English language. More than eighty medical periodicals are received regularly, thus giving adequate representation to the actual progress of the science at home and abroad, and enabling students to trace the evolution of problems to their latest phases.

This large and rapidly growing collection of books and periodicals is systematically classified and catalogued by a trained librarian, who is constantly present to assist and instruct students in the correct and independent use of a large and technical library. The close proximity of the library to the class and lecture rooms, and the free and unrestricted use our students are permitted to make of it, materially augment its value. The high esteem and genuine appreciation with which the library is regarded is indicated by the large daily attendance and by the frequent visits of physicians and students from neighboring institutions.

#### REQUIREMENTS FOR GRADUATION

1. Satisfactory evidence of good moral character.
2. Satisfactory evidence that the candidate is at least 21 years of age.
3. Attendance during four collegiate years, the last of which must have been in this institution, and completion of the required work of each year.
4. The study of practical anatomy during two years, and to the extent of having dissected at least the lateral half of the body.
5. Attendance upon two full courses of dispensary clinics and two full courses of hospital clinics.
6. Satisfactory deportment.
7. Payment in full of all fees.

#### CORRESPONDENCE

Address all correspondence to

DR. FRANK B. EARLE, Secretary,  
Congress and Honore Streets, Chicago

## THE SCHOOL OF DENTISTRY

(For Instructors of School of Dentistry, see page 30.)

In 1901 the University, through the College of Physicians and Surgeons, acquired the property of the Illinois School of Dentistry, in Chicago, and opened it in the fall of the same year as the School of Dentistry of the University of Illinois, a department of the College of Medicine. The School occupies the building on the corner of Harrison and Honore streets, formerly occupied by the College of Medicine. The building is a five-story stone structure, furnished throughout with new and modern equipment, commodious, and in every way suitable for its purposes. It is in the center of the medical and dental district, being directly opposite the Cook County Hospital, and therefore is well located as a clinical field for dental instruction.

## EQUIPMENT

The main building of the School contains three well-lighted and well-ventilated lecture rooms in the form of amphitheatres, the smallest of which has a seating capacity of two hundred. The laboratories occupy four floors of the building. Three of them are 25x100 feet each, and one is 25x156 feet. Each laboratory accommodates 120 students. Adjoining the laboratories are preparation rooms for the use of demonstrators and professors. The laboratories are supplied with microscopes, immersion lenses, microtomes, and new projection apparatus, a complete X-ray apparatus, and all other necessary equipment. The physiological laboratory is especially well equipped, and the clinical operating room, chemical and histological laboratories, and dissecting rooms, are all complete.

## REQUIREMENTS FOR ADMISSION

Extract from "Code of Rules," in effect since the session 1899-1900, of the National Association Dental Faculties:

"The minimum preliminary educational requirements for

the session of 1900-1901 of colleges, members of the National Association of Dental Faculties, shall be a certificate of entrance into the second year of a high school, or its equivalent, the preliminary examination to be placed in the hands of any State Superintendent of Public Instruction."

Students desiring to matriculate should bring and present to the School any diploma, literary or otherwise, which they possess.

The rules and regulations passed by the National Association of Dental Faculties for the government of the Colleges of the Association have been adopted by the faculty of this institution.

"Beginning with last year a radical change has been made by dental schools in the method of examination for admission. Formerly these examinations were made by the officers of the Dental School, but the Faculties' Association, at the Omaha meeting in 1898, passed a rule requiring that these examinations be made by the legally constituted officers of instruction of the locality in which the applicant resides.

"Therefore students desiring to matriculate in this School must bring with them credentials signed by a County or State Superintendent of Schools, a City Superintendent of Schools, or a principal of a high school.

"These credentials must show the applicant to have progressed in his studies to the grade of the second year of the high school, or its equivalent, in order to entitle him to enter this school for the term beginning October, 1901. These credentials will not be required of applicants who present diplomas from high-schools or colleges." These rules apply to first year students only.

#### ADVANCED STANDING

Students who present certificates showing that they have taken courses in other schools of equivalent standing, in subjects required in this School, will be accredited with

such studies, if satisfactory to the professors in the respective departments.

### COURSE OF STUDY

The course of study required for graduation extends through three years. The courses taught are materia medica, operating dentistry, prosthetic dentistry, dental history, the construction of vulcanite and metallic bases, crown and bridge work, clinical comparative methods, infirmary prosthesis, bacteriology, anatomy, physiology, histology, chemistry, neurology, and dental jurisprudence. The work of each year continues seven months and is progressive from one year to another. The system of teaching includes lectures, demonstrations, recitations, and written and oral examinations, as well as individual instruction in actual work.

More detailed information concerning the School of Dentistry is given in the special announcement of the School. Address the Director, Dr. A. H. Peck, 92 State street, Chicago, Ill., or the Registrar of the University, Urbana, Ill.

# THE SCHOOL OF PHARMACY

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(For Faculty of School of Pharmacy, see p. 32.)

## HISTORY

The School of Pharmacy of the University was incorporated in 1859 under the name of the Chicago College of Pharmacy. Up to this period the old European custom of indenturing had been in vogue, but with the restless spirit of a young and rapidly-growing city it found little favor. Some of the foremost pharmacists of the city, who had been brought up under that system, thought that school instruction would afford a better training. At the time, there was no school of pharmacy available west of the eastern states, and upon mature thought the establishment of one in Chicago seemed desirable. All the pharmacists of the city were eligible to membership, and all educated and reputable pharmacists of the Northwest were invited to become members. From among those thus affiliated, the officers and a board of trustees were elected, to serve without pay.

Members and friends contributed money and supplies, teachers were engaged, and in October, 1859, the lecture course was instituted, with an attendance of about forty students. Lectures were given in the evening three times a week.

In the spring of 1860, after a six months' course, two students were examined and subsequently graduated.

In October, 1864, the school entered upon its second term, but on account of the excitement caused by the Civil War, the school was closed.

On Monday, Oct. 3, 1870, lectures were resumed with a class of about thirty, the lectures on chemistry being given on Wednesdays at Rush Medical College.

The outlook was very encouraging, and on October 2, 1871, the school was opened for the third time, with a class of between 40 and 50 students. The first week of the term had closed when the great fire came and totally destroyed the property of the school. Pharmacists and other friends throughout the States and Europe offered assistance, and when the time came for opening the session of 1872-73 the school once more had an excellent library and outfit of apparatus, the nucleus of its present complete equipment. The instruction was resumed at that time and has continued uninterrupted to the present.

Upon reorganizing it was decided to publish a small journal for the purpose of advertising the college and in the interest of western pharmacy generally. Accordingly, in September, 1868, *The Pharmacist*, a quarterly journal of twenty pages, made its appearance. Volume 2 saw it changed to a monthly. Its publication, which was of great benefit to the school, was continued until 1886.

In 1884 the College took possession of a commodious three-story building on State street, designed for its use, containing a large lecture hall, a very large chemical and pharmacal laboratory, and a smaller one for histological work. Attendance upon these laboratories, which previously had been optional, now became imperative. In 1892, a laboratory devoted entirely to prescription compounding was established, and in 1893 a section of fixtures with apparatus and utensils from this department was placed on exhibition at the World's Fair and won a medal and diploma for the college for excellence of equipment.

On May 1, 1896, the College was formally united with the State University and is now conducted as the School of Pharmacy of the University of Illinois. In the management of the school the trustees of the University have the assistance of an advisory board, elected by the pharmacists of



the state through the agency of the Illinois Pharmaceutical Association.

The courses of instruction are divided into junior and senior terms, each of seven months, extending from September to April inclusive, and afford opportunity for a thorough technical training, such as is necessary for the successful practice of pharmacy, or of some special line of work. The subjects taught are botany, physiology, materia medica, pharmacy, general and dispensing; chemistry, general, pharmacal and analytical.

The system of teaching embraces lectures, illustrations, demonstrations, recitations, written and oral examination, individual work and personal instruction in the actual work of the various laboratories, much time being devoted to this important part of the student's work.

#### REQUIREMENTS FOR ADMISSION

Applicants must be at least sixteen years of age and must furnish satisfactory evidence of their ability to prosecute the work of the course successfully.

The preliminary education of the student must be equivalent to that required for entrance to a good high school.

Students who have pursued a course of study in some other high school or college of pharmacy, or at a university, will be given credit for such portions of their work as are equivalent to the work required by this school.

#### REQUIREMENTS FOR GRADUATION

The candidate for the degree of Graduate in Pharmacy must be twenty-one years old, must have had four years' practical experience in pharmacy, which may include the period of attendance at school, and must have attended two full courses of instruction, the first of which may have been in some other reputable college or school of pharmacy. He must have attended regularly the laboratory and lecture

courses of this school, and must pass the examinations, provided, however, that if the average of the term examination in either or all departments be above 80, the student will be released from taking the final in that or those departments. Any student absent more than five school days in all departments becomes ineligible to graduation.

The candidate for the degree who presents himself for final examination before he has attained the age or practical experience required, will, if successful, receive a certificate of having finished the course, and will be awarded the diploma when the requirement of age and experience are complied with.

Persons competent to fulfill the general requirements of admission to the University may be granted credits upon other University courses for equivalent work completed at the School of Pharmacy.

Further information may be found in the special announcement of this School, which may be obtained from W. B. Day, Actuary, School of Pharmacy, 475-7 State street, Chicago, Ill.

## SUMMER SESSION

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The Summer Session of 1904 will open Monday, June 13th, continue nine weeks, and close Friday, August 12th. No examinations or other conditions will be placed upon admission. All who can do the work are welcome to get what they can from it. Those who can meet the requirements may matriculate in the University if they desire, and in that event (upon examination) may receive credits to apply upon regular University courses. Examination in and credit for some of the courses may be had at the end of six weeks by any who find it impossible to remain during the whole session. Instruction begins on June 14th and closes August 10th.

### FEES

A tuition fee of twelve dollars (\$12) is required of all students in regular attendance at the session. This entitles one to admission to regular courses and to all special lectures. An extra laboratory fee is charged in some courses for materials used. Any single course may be taken for a fee of six dollars (\$6) and the laboratory fee, if there be any in connection with the course taken. For further information address Thomas Arkle Clark, Director, or W. L. Pillsbury, Registrar, Urbana, Illinois.

### COURSES OFFERED

ART AND DESIGN.—Two courses. Assistant Professor Lake.

ASTRONOMY.—Two courses. Dr. Stebbins.

BOTANY.—Three courses. Assistant Professor Hottes and Mr. Ballard.

CHEMISTRY.—Three courses. Mr. Sammis and Mr. Williams.

DRAWING, GENERAL ENGINEERING.—Two courses. Mr. Kable.

ECONOMICS.—Three courses. Assistant Professors Hammond and Western.

EDUCATION.—Six courses. Professor Dexter and Assistant Professor Hollister.

In addition to these courses special lectures will be offered by Professor Paul Henry Hanus, of Harvard University, and by Superintendent Calvin N. Kendall, of the Indianapolis, Indiana, schools.

ENGLISH LITERATURE.—Eight courses. Professor William E. Simonds, of Knox College, Assistant Professor Fulton, and Mr. Paul. In addition to these courses Professor J. V. Denney, of Ohio State University, will give a series of lectures on topics closely related to English Literature.

FRENCH.—Three courses. Miss Jones.

GERMAN.—Three courses. Assistant Professor Brooks.

GOVERNMENT, Science of.—One course. Assistant Professor Weston.

HISTORY.—Four courses. Professor Henry Johnson, of the Eastern Illinois State Normal School, and Mr. Alvord. In addition to these courses, Professor Albert Bushnell Hart, of Harvard University, will give a series of lectures on his special subject.

LATIN.—Three courses. Dr. Neville.

MANUAL TRAINING.—Four courses. Mr. Foster H. Irons, of the Superior, Wisconsin, public schools, and Mr. Curtiss.

MATHEMATICS.—Nine courses. Assistant Professor Hall, Mr. Brenke, and Dr. Coar.

MUSIC.—Four courses. Assistant Professor Breneman, Mrs. Daniels, and Mr. Schwartz.

PHYSICS.—Four courses. Dr. Watson and Mr. Schulz.

RHETORIC.—Four courses. Professor Clark and Miss Kyle.

ZOOLOGY.—Three courses. Assistant Professor Smith and Dr. Peters.

The libraries, laboratories, and gymnasium of the University are open to students in the Summer Session.

## GENERAL DESCRIPTION OF COURSES

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Following the description of each course of instruction will be found the necessary requirements, if any, for admission to that particular course. Careful attention must be given to these requirements and to the sequence of studies thus indicated. For instance, under Architecture 4, for students of the College of Engineering, page 179, there are required "Physics 1 and 3," and "Architecture 2 and 3." Turning now to these subjects, it is found that physics 1 and 3 are the major course of one year, architecture 2 is wood construction, and architecture 3 is metal construction. All these subjects must be satisfactorily passed before admission may be had to the class in architecture 4.

In case a course not required for graduation is selected by less than five students, the right to withdraw the same for the semester is reserved.

Graduate courses of instruction are described under the various subjects, as a rule after the undergraduate courses. They are numbered upward from 100. Other courses may often be arranged by the professors in charge to meet the special requirements of students.

Credit is reckoned in semester "hours," or simply "hours." An "hour" is either one class period a week for one semester, each class period presupposing two hours' preparation by the student, or the equivalent in laboratory, shop, or drawing room.

The semester, the days, and the class period or periods during which each course is given, and the number of "hours" per semester for which the course counts, are

shown after each course, as follows: The semester is indicated by the Roman numerals I., II.; the days by the initial letters of the days of the week; the class period or periods (of which there are nine each day, numbered consecutively from one to nine), by Arabic figures; and the "hours" or amount of credit, by Arabic figures in parenthesis. For example, after the description of Astronomy 5 occur the abbreviations I.; M., W., F.; 6; (3). These are to be read first semester, Monday, Wednesday, and Friday, sixth period, three "hours."

### AGRONOMY

Professor HOPKINS, Professor DAVENPORT, Mr. MOSIER. Mr. CRANE, Mr. PETTIT, Mr. WILLIS, and Mr. HUME.

1. DRAINAGE AND IRRIGATION.—Location of drains and irrigation conduits, leveling, digging, laying tile and pipes, filling, and subsequent care; cost of construction and efficiency; sewers for the disposal of waste water from farm buildings and the sewage from kitchen and toilet; farm water pipes, pipe and thread cutting. Class work, laboratory and field practice. *I., first half; daily; 3, 4; or II., second half; daily; 3, 4; (2½).* Mr. CRANE.

2. FIELD MACHINERY.—The tools and machinery of the field,—plows, harrows, and hoes; seeders, drills, corn and potato planters; cultivators, weeders and spraying machines; mowers, rakes, self-binders, corn harvesters and huskers, potato diggers, wagons, etc. Class work and laboratory practice, including setting up and testing machines, noting construction and elements necessary for successful work. *I., first half; daily; 1, 2; or II., second half; daily; 1, 2 (2½).* Mr. CRANE.

3. FARM POWER MACHINERY.—Horse-powers, gas engines, traction engines, windmills, pumps, corn shellers, feed cutters, grinders, and threshing machines,—their construction, efficiency, durability, and care. Class room and laboratory work. *I., second half; daily; 7, 8; (2½).* Mr. CRANE.

4. FARM BUILDINGS, FENCES AND ROADS.—The arrangement, design, construction, and cost of farm buildings, especially of barns, granaries, and silos; the different kinds of fences, their cost, construction, efficiency, and durability; cost and construction of roads and walks. Class work and practice in designing and drafting

buildings, operating fence-building machines, setting and testing fence posts, making walks, etc. *II., first half; daily; 7, 8; (2½).* Mr. CRANE.

5. FARM CROPS.—Quality and Preservation. Judging of corn, oats, wheat, etc., and a study of market grades of farm crops; shrinkage of grain and care of stored crops to prevent injury and loss. Class and laboratory work. *I., first half; daily; section A, 1, 2; section B, 7, 8; (2½).* Mr. HUME.

6. FARM CROPS.—Germination and Growth. Vitality and germination of seeds, preservation of seeds, methods of seeding; conditions of plant growth; peculiarities of the different agricultural plants in respect to structure, habits, and requirements for successful growth; enemies to plant growth,—weeds and weed seeds, their identification and methods of destruction, fungous diseases, such as smut of oats and wheat, and blight, scab, and rot of potatoes, methods of prevention; insects injurious to farm crops and how to combat them. Class room, laboratory, and field work. *II., first half; daily; section A, 1, 2; section B, 7, 8; (2½).* Mr. HUME.

7. SPECIAL CROPS.—A special study of farm crops taken up under an agricultural outline,—grain crops, root crops, forage crops, sugar and fiber crops,—their history and distribution over the earth, methods of culture, cost of production, consumption of products and residues, or by-products. Class work supplemented by practical field work and a study of the results of previous experiments, such as detasseling corn, injury to roots of corn by cultivation; selection of seeds of farm crops; special reference to Illinois conditions. Students will have an excellent opportunity to study the work of the Agricultural Experiment Station. *II., daily; 3, 4; (5).* Mr. HUME.

*Required:* Agronomy 2, 5, 6.

8. FIELD EXPERIMENTS.—Special work by the students, conducted in the field. This work consists in testing varieties of corn, oats, wheat, potatoes, and other farm crops; methods of planting corn, seeding grains, grasses, and other forage crops; culture of corn, potatoes, and sugar beets; practice in treating oats and wheat for smut, and potatoes for scab, and studying the effects upon the crops; combating chinch bugs and other injurious insects. Other practical experiments may be arranged with the instructor. Special opportunities will be given to advanced students of high class standing to take up experiments, under assignment and direction of the instructor in farm crops, on certain large farms in the state, arrange-

ments having been made with the farm owners or managers for such experiments. *II., second half, and summer vacation; daily; arrange time; (2½-5).* Mr. HUME.

*Required:* Agronomy 7, 12.

9. SOIL PHYSICS AND MANAGEMENT.—This course is designed better to prepare the student to understand the effects of the different methods of treatment of soils and the influence of these methods upon moisture, texture, æration, fertility, and production. It comprises a review of the origin of soils and the various methods of soil formation; a study of their mechanical composition and classification; of soil moisture and means for conserving it; of soil texture as affecting capillarity, osmosis, diffusion, and as affected by plowing, harrowing, cultivating, rolling, and cropping; of the wasting of soils by washing; fall or spring plowing and drainage as affecting moisture, temperatures, and root development. The work of the class room is supplemented by laboratory work, comprising the determination of such questions as specific gravity, relative gravity, water holding capacity and capillary power of various soils; also the study of the physical effects of different systems of rotation and of continuous cropping with various crops, and the mechanical analysis of soils. *I.; daily; 1, 2; (5).* Mr. MOSIER and Mr. WILLIS.

*Required:* Chemistry 1, or two credits in entrance Physics.

10. SPECIAL PROBLEMS IN SOIL PHYSICS.—This work is intended for students wishing to specialize further in the study of the physical properties of soils, and includes the determination by electrical methods of the temperature, moisture, and soluble salt content of various soils under actual field conditions; effect of different depths of plowing, cultivation, and rolling on soil conditions; effects of different methods of preparing seed beds; the physical questions involved in the formation and redemption of the so-called "alkali," "barren" or "dead dog" soils, and of other peculiar soils of Illinois. *II., or summer vacation; daily; arrange time; (2-5).* Mr. MOSIER.

*Required:* Agronomy 9, and one semester work in Geology.

12. FERTILIZERS, ROTATIONS, AND FERTILITY.—The influence of fertility, natural or supplied, upon the yield of various crops; the effect of different crops upon the soil and upon succeeding crops; different rotations and the ultimate effect of different systems of farming upon the fertility and productive capacity of soils. The above will be supplemented by a laboratory study of manures and



fertilizers, their composition and their agricultural and commercial value; of soils cropped continuously with different crops and with a series of crops; of the fertility of soils of different types, or classes from different sections of Illinois. *II.*; *daily*; 1, 2; (5). Professor HOPKINS and Mr. PETTIT.

*Required:* Chemistry 13a; Agronomy 6, 9.

13. INVESTIGATION OF THE FERTILITY OF SPECIAL SOILS.—This course is primarily designed to enable the student to study the fertility of those special soils in which he may be particularly interested, and to become familiar with the correct principles and methods of such investigations. It will include the determination of the nature and quantity of the elements of fertility in the soils investigated, the effect upon various crops of different fertilizers added to the soils, as determined by pot cultures, and, where possible, by plot experiments. This work will be supplemented by a systematic study of the work of experiment stations and experimenters along these lines of investigations. *I., II.*; *arrange time*; (2-5). Professor HOPKINS.

*Required:* Agronomy 12.

15. COMPARATIVE AGRICULTURE.—Reasons for the differences in the agriculture of different times, peoples, and countries, and why it is that the agriculture of a region or of a farm is a definite and individual problem, together with the need of harmonizing agricultural practice with natural conditions as well as with the findings of science. Circumstances that influence agricultural practice, as soil, climate, machinery, race, custom, land tenure, etc., and what is best under different conditions. Lectures; *II.*; *F.*; 4 (1). Professor DAVENPORT.

*Required:* Two years' University work.

16. GERMAN AGRICULTURAL READINGS.—A study of the latest agricultural experiments and investigations published in the German language, special attention being given to soils and crops. The current numbers of German journals of agricultural science will be required and used as a text. This course is designed to give the student a broader knowledge of the recent advances in scientific agriculture, and, incidentally, it will aid him in making a practical application of a foreign language. It is recommended that it be taken after Agronomy 12. *II.*; *M., W.*; 4; (2). Professor HOPKINS.

*Required:* Two years' work in German.

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Note.—For Plant Breeding, see Thremmatology 1.

17. SPECIAL WORK IN FARM MECHANICS.—Students may arrange for special work in any of the lines covering drainage or farm machinery, either in the second semester or the summer. ( $2\frac{1}{2}$ -5). Mr. CRANE.

18. INVESTIGATION AND THESIS.—This course varies in the subject matter of study, according to the department in which these are written. The work is under the direction of the head of the department in which the work is done. *I., II.; arrange time; (5-10).*

### ANIMAL HUSBANDRY

Professor MUMFORD, Mr. HALL, Mr. OBRECHT, Mr. DIETRICH,  
Mr. GOOD.

1. SHEEP, MUTTON, AND WOOL.—The different grades of wool and their uses in manufactures, together with a critical examination of animals both for mutton, wool, and breeding purposes. The development and characteristics of the several breeds; the most successful methods of flockmasters, and the production of mutton and wool for the markets of the world. Lectures, assigned readings, and extensive practice in judging. *II.; second half; daily; 3, 4; ( $2\frac{1}{2}$ ).* Mr. ———.

*Required:* Animal Husbandry 2I or 7.

2. SWINE.—A study of the types and breeds of swine and the most successful methods of growing and marketing them. Lectures, assigned readings, and practice in judging. *I.; second half; daily; 3, 4; or II.; first half; daily; 3, 4; ( $2\frac{1}{2}$ ).* Mr. DIETRICH.

*Required:* Animal Husbandry 2I or 7.

4. MARKET CLASSES, HEAVY HORSES.—The horse market; an outline of the types and classes in demand; special study of the heavy horse, of the uses to which he is put, and of the breeds suitable for his production, together with the best methods of producing and fitting heavy horses for the market. Lectures, assigned readings, and exhaustive practice in judging. *II.; first half; M., W., F.; 6, 7; (2).* Mr. OBRECHT.

5. MARKET CLASSES, LIGHT HORSES.—Coach, carriage, and road horses; bus horses, cab horses, and saddlers; artillery and cavalry horses; a systematic study of their classes and types and of the breeds and methods most suitable for their production; also handling and fitting for market. Lectures, assigned readings, and prac-

tice in judging. *II.*; *first half*; *Tu., Th., 6, 7*; *Sat. 1, 2*; (*2*). Mr. OBRECHT.

7. PRINCIPLES OF ANIMAL NUTRITION.—The functional activities of the animal body and the end products of their metabolism. Foods are considered first chemically, as affording materials for the construction of the body tissues or of animal products, as meat, milk, wool, etc.; second, dynamically, as supplying the potential energy for the body processes and for external labor; third, as to the fertilizing value of their residues. *I.*; *first half*; *daily*; *3*; (*2½*). Mr. HALL.

*Required*: Chemistry I.; 3b, 4, 13; entrance Physics or its equivalent and one year of Botany or Zoölogy.

8. STOCK BREEDING.—(See THREMMATOLOGY I.)

9. INVESTIGATION AND THESIS.—Upon lines to be arranged with instructor for one or both semesters, according to nature of the subject. (*5-10*). Professor MUMFORD, Mr. HALL, Mr. OBRECHT, Mr. DIETRICH.

10. MEAT.—The various cuts of beef, mutton, and pork, their comparative food value, quality and cost; a critical study of quality and richness in meat; the by-products of the slaughter house and their bearing upon the cost of meat. Lectures, assigned readings, and demonstrations. *I.*; *second half*; *daily*; *I.*; (*2½*). Mr. HALL.

11. MARKET CLASSES AND GRADES OF BEEF CATTLE.—An outline of the market classes and grades, including the various grades of beef cattle, butcher stock, cutters and canners, stockers and feeders, and veal calves. A study of beef type from the standpoint of the butcher, the feeder, and the breeder. Lectures, assigned readings, and exhaustive practice in judging. *I.*; *second half*; *daily*; *section A, 7*; *section B, 8*; (*2½*). Mr. HALL.

12. BREEDS OF BEEF CATTLE.—The history, development, and characteristics of the breeds suitable for beef production. Tracing pedigrees and a critical study of the same. (This course is intended for students expecting to own or manage pure bred herds.) Lectures, assigned readings, and exhaustive practice in judging. *I.*; *first half*; *Lectures, M., T., W.*; *6*; *Laboratory or practical exercises in judging, Th., F.*; *6*; and *two hours additional laboratory work per week for which arrange time*. Professor MUMFORD.

*Required*: Animal Husbandry 10 and 11.

13. BEEF PRODUCTION.—Methods and practices in breeding and feeding beef cattle for the open market. By-products of the feed

lot and their bearing upon the cost of beef. It is recommended that this course should be taken after Animal Husbandry 10. Lectures, assigned readings, and a study of experimental work. *II.; T., Th.; 8; (2½)*. Mr. HALL.

*Required:* Animal Husbandry 21 or 7.

14. MANAGEMENT OF PURE-BRED HERDS OF BEEF CATTLE.—Like Animal Husbandry 12, this course is intended for students anticipating the management, or ownership of registered herds. The breeding herd, and its housing, feed, and management. The selection and fitting of animals for sale and for the show ring. Disposal of surplus stock. Lectures and assigned readings. *I.; second half; M., T., W.; 6; laboratory work four hours per week for which arrange time; (2½)*. Professor MUMFORD.

*Required:* Animal Husbandry 10, 11, 12, and 13.

15. DAIRY CATTLE.—(See DAIRY HUSBANDRY 2, 16, 17, and 18.)

16. STABLE MANAGEMENT AND FEEDING.—Stables; stable floors, fixtures, and other equipment, and their care; feeding and care of work horses and drivers at labor and at rest; care of harness, vehicles, etc. Lectures and reference readings. *I.; second half; M., W., F.; 7; (1½)*. Mr. OBRECHT.

*Required:* Animal Husbandry 21.

17. THE EDUCATION AND DRIVING OF THE HORSE.—A critical study of the mental qualities, peculiarities, and limitations of the horse, together with the most successful methods of educating and training him for skillful work at labor or on the road. The rules and practices of correct driving; the responsibilities of the driver and the courtesies of the public highway. Lectures, readings, and practice. *II.; second half; daily; 6, 7; (3)*. Mr. OBRECHT.

*Required:* Animal Husbandry 5 and permission of instructor.

18. BREEDS OF LIGHT HORSES.—Their history, development, characteristics, and uses. Lectures and assigned readings. *I.; first half; M., W., F.; 7; (1½)*. Mr. OBRECHT.

*Required:* Animal Husbandry 5 or its equivalent.

19. BREEDS OF DRAFT HORSES.—Their history, development, and characteristics. Lectures and assigned readings. *I.; first half; Tu., Th.; 7; (1)*. Mr. OBRECHT.

*Required:* Animal Husbandry 4 or its equivalent.

20. BREEDING, REARING, AND MANAGEMENT OF HORSES.—Selection of breeding stock; care and management of stallions, mares,

and foals; buying, selling, and showing. Lectures and assigned readings. *I.*; *second half*; *Tu., Th.*; 7; (1). Mr. OBRECHT.

*Required:* Animal Husbandry 4 or 5, and 18 or 19.

21. ELEMENTARY STOCK FEEDING.—The animal body; its processes and requirements; the digestion and utilization of food, and conditions affecting the same. Feeding stuffs; their composition; their comparative values considered chemically, physiologically and with reference to their fertilizing constituents. Feeding standards and the compounding of rations. Lectures, assigned readings, and recitations. *I.*; *first half*; *Tu., Th.*; 4; or *II.*; *first half*; *Tu., Th.*; 4; (1). Mr. HALL.

#### COURSES FOR GRADUATES

101. DEVELOPMENT OF TYPE IN DOMESTIC ANIMALS.—A study of the various factors and conditions involved in the development of type and characteristics in the breeds and strains of cattle, horses, sheep and swine, and the bearing of these factors and conditions upon future improvement. Professor MUMFORD.

102. ANIMAL NUTRITION.—Advanced work in the principles of nutrition as bearing upon the feeding of animals. Special investigations at the Experiment Station, also special study of records of investigations and feeding experiments of the department with reference to problems of nutrition. Professor MUMFORD.

103. LIVE STOCK EXPERIMENTATION.—Objects, methods, and sources of error in experimental work dealing with the feeding, breeding and management of farm animals. Detailed study of live stock experiments in progress at this Station, and a survey of past and present work in this line by the various experiment stations of the world. Professor MUMFORD.

#### ANTHROPOLOGY

Professor DANIELS.

1. ETHNOGRAPHY.—The physical and psychical elements of ethnography. Origin, characteristics, and subdivisions of races and peoples. Lines of migration and national intercourse. *I.*; *W., F.*; 7; (2). Professor DANIELS.

*Required:* A major or minor course in economics, geology, psychology, or zoölogy.

2. ETHNOLOGY.—A comparative study of customs, ceremonies,

rites, and folk-lore, of primitive peoples. Special attention is given to the study of primitive religious ideas with reference to their relation to the various civilizations, and also to the psychic nature of man. *II.; Tu., Th.; 1; (2)*. Professor DANIELS.

*Required:* Two years of University work.

## ARCHITECTURE

Professors RICKER, WHITE AND WELLS; Assistant Professors McLANE AND TEMPLE.

2. WOOD CONSTRUCTION.—Formulæ and data for computing dimensions and strength of columns, beams, girders, etc., of wood or metal, are given and applied in the solution of examples. Wood and its uses in construction and decoration, seasoning, shrinkage, defects, and modes of protection from decay. Construction and design of wooden floors, walls, ceilings, and roofs, and joinery, doors, windows, bays, inside finish, cornices, wainscoting, stairs, etc. *Kidder's Building Construction and Superintendence; Part II.; I.; W., F.; 6, 7, 8; (3)*. Assistant Professor McLANE.

*Required:* General Engineering Drawing 1, 2.

3. MASONRY AND METAL CONSTRUCTION.—Foundations of stone, brick, concrete, and piles; materials employed in stone masonry, their uses, defects, qualities, and modes of preparation. Kinds of masonry and external finish. Tools for stone cutting and their use. Preparation of working drawings, with application to the arch, vault, and dome. Brick masonry, its materials, and bonds, manufacture and refining of cast iron, wrought iron, and steel, with processes of pattern-making, molding, casting, refining, rolling, etc., and standard dimensions or sections. Special properties and value of metal in a structure, designing a line of columns in mercantile building, and of beams, girders, and footings, together with the study of joints and connections. *Kidder's Building Construction and Superintendence; Part I. II.; Tu., Th.; 6, 7, 8; (3)*. Assistant Professor McLANE.

*Required:* General Engineering Drawing 1, 2.

4. SANITARY CONSTRUCTION.—Recitations and lectures, designs for special problems. Study of plumbing, trap ventilation, removal of wastes, construction of water closets, drains, and systems of water supply; sewage disposal. Water supply and fixtures in dwell-

ings. *Gerhard's Sanitary Engineering; Lectures on Sewage Disposal. I.; M., W., F.; 2; (3).* Assistant Professor McLANE.

*Required:* Physics 1, 3; Arch. 2, 3.

5. GRAPHIC STATICS AND ROOFS.—Elements of graphic statics and applications in designing trussed roofs. Forces, equilibrium, reactions, moments, bending moments, and shears on beams, center of gravity, moment of inertia and kern of cross sections. Construction of wooden and of metallic roofs, mode of computing loads on roof trusses, obtaining end reactions, drawing strain diagrams, and determining sectional dimensions of members, with the designing of joint connections. *Soudericker's Graphic Statics. II.; M., W., F.; 6, 7, 8; (3).* Assistant Professor McLANE.

*Required:* Math. 2, 4, 6; Theoretical and Applied Mechanics 1, 2 or 4, 5.

6. HISTORY OF ARCHITECTURE.—Continues through the year and is taken with architecture 7 and 11. Commencing with Egyptian and ending with modern styles, a careful study is made of the more important styles, examining historical conditions, local and inherited influences, structural materials and system, special ornaments, purposes and designs of the buildings, with the most important typical examples of each style. Especial attention given to ideas useful or suggestive in American work, and to tracing gradual evolution of architectural forms. One recitation and two illustrated lectures a week. References made to Fergusson, Lubke, Durm, Reber, Choisy, Hamlin, etc. *Fletcher's History of Architecture, 4th Edit. I.; M., Tu., W., Th.; 3; II.; M., Tu., W., Th.; 4; (4).* Professor RICKER.

7. HISTORIC ORNAMENT.—A study of the most important details of the Grecian, Roman, Early Christian, Byzantine, Mohammedan, Romanesque, Gothic, and Renaissance styles. Taken with Architecture 6. Lectures and drawing. *I.; Tu.; 6, 7, 8; II.; Th.; 1, 2, 3; (1).* Assistant Professor TEMPLE.

*Required:* Architecture 2, 3, 8.

8. THE ORDERS OF ARCHITECTURE.—A study of the Five Orders of Architecture, and architectural Shades and Shadows and of the proportions and details of the Orders by means of lectures, recitations, blackboard sketches from memory, and problems requiring the use of Orders. *Ware's American Vignola; Lectures on Shades*

and Shadows. II.; lecture, Tu.; 2; drawing, M., W., F.; 1, 2; (3). Assistant Professor McLANE.

*Required:* Gen. Eng'g Drawing 1; Architecture 20 or 21.

9. MONTHLY PROBLEMS.—An entire day in each month during the second, third, and fourth years is devoted to a problem in design. The program is made known at beginning of the exercise, and sketches must be completed and rendered during the same day. Credit is given for this study only after the completion of each year. I., II.; first Tu. in each month, all day; ( $\frac{1}{2}$  for each semester.) Assistant Professor TEMPLE.

*Required:* General Engineering Drawing 1, 2.

10. WORKING DRAWINGS.—Conventional methods for representing the different parts of buildings in general and in detail, conventional colors and sectioning; systems of lettering and figuring drawings; working drawings; tracing; drawing for reproduction. II.; Tu.; 1, 2, 3 or 6, 7, 8; (1). Professor WHITE.

*Required:* Architecture 2, 3.

11. ARCHITECTURAL SEMINARY.—Reports and discussions of original investigations of assigned topics in History of Architecture; reviews of books, abstracts of current technical journals, and other publications. Taken with Arch. 6 and 7. I.; F.; 3; II.; F.; 4; (1). Professor RICKER.

12. SUPERINTENDENCE, ESTIMATES, AND SPECIFICATIONS.—This study comprises several specialties not otherwise provided for, so far as they can be taught in a professional school. The subjects treated include the duties of a superintendent, his relations to architect, owner, and contractor, the method of supervising work, systems of keeping building accounts, the usual methods of measurement of materials and work, arrangement of computations in proper and convenient order, and approximate prices of material and labor, which vary in different localities. The methods of estimating by squaring, cubing, units, and quantities are each employed and illustrated by problems. A study is made of the general and special clauses of specifications and of their arrangement, as well as of methods of classifying material to facilitate writing specifications. Practice is obtained by writing several sets. *Clark's Superintendence; Hodgson's Estimating; Bower's Specifications.* I.; Tu., W., F.; 1; (3). Professor WHITE.

*Required:* Architecture 4.



13. HEATING AND VENTILATION.—Scientific theory and practice of warming and ventilating buildings is the object of this study. Commencing with fuels and production of heat, then passing to flow of gases through ajutages and pipes, applying these data to calculation of dimensions of air ducts and chimneys. Different systems of heating by furnaces, hot water, steam, etc., are next examined, with details of each. Sources of impurity in the air and requirements of good ventilation are then considered, with the different methods of ventilation by aspiration, by fans, etc., ending with the study of fans of different types. Numerous problems are given, and heating plants designed. *Carpenter's Heating and Ventilating Buildings; Ricker's Notes on Heating and Ventilation. I.; M., W., Th., F.; 4; (4).* Professor WHITE and Assistant Professor McLANE.

*Required:* Architecture 4, 15; Physics 1, 3.

14. ARCHITECTURAL PERSPECTIVE.—Theory of perspective is taught with labor-saving methods of abbreviating work, and designing in perspective is made a special aim. Problems in angular, parallel, vertical, and curvilinear perspective, as well as in perspective shades and shadows, are solved. *Ware's Modern Perspective. I.; M., Tu.; 6, 7, 8; lecture, Th.; 4; (3).* For Architectural Engineers (2). Assistant Professor TEMPLE and Professor WELLS.

*Required:* General Engineering Drawing 1, 2a.

15. REQUIREMENTS AND PLANNING OF BUILDINGS.—A study of the requirements which must be considered to successfully plan schools, churches, libraries, theatres, hospitals, and other usual types of buildings. Numerous problems in planning are given. *II.; lecture, Tu.; 2; drawing, M., Th., F.; 1, 2, or 2, 3; (3).* Professor WHITE.

*Required:* General Engineering Drawing 1, 2; Architecture 2.

16. RESIDENCE DESIGN.—Practice in design, and study of the requirements for dwellings. The work is limited to residences, since this class of buildings is likely to afford the graduate his first opportunity for independent original work. Lectures and drawing. *II.; Tu.; 6, 7, 8; (2).* Professor WHITE.

*Required:* Architecture 2, 3, 8.

17. ARCHITECTURAL DESIGNING.—Simple problems in design are solved by sketch plans, elevations, and sections, rendered as required. The object is to obtain as much practice in design as possible, and the course serves as an introduction to senior work in

design. *II.*; *M., W., F.*; *1, 2, 3*; (3). Assistant Professor TEMPLE.

*Required:* Architecture 6, 7, 8, 9, 11, 20 or 21.

18. ARCHITECTURAL COMPOSITION.—A careful study is made of the laws of architectural design and of the results of experience. Commences with general principles, passing to an examination of proportions employed in most important styles, arrangement of plan, external design in general detail, ceilings, and interior arrangement of corridors, stairways, and entrances, of internal courts, and of halls for large assemblages. Frequent problems in design afford practical application of the principles. *I.*; *M., W., F.*; *6, 7, 8*; (3). Assistant Professor TEMPLE.

*Required:* Architecture 6, 7, 11, 17, 20 or 21.

19. ARCHITECTURAL ENGINEERING.—This continues the study of graphic statics, commenced in "Graphic Statics and Roofs," with applications to metallic roofs of wide span, roof trusses of curved or unusual form, and those supported by abutments and jointed. Spherical and conical trussed domes. Effect of moving loads on girders, the graphical analysis of the arch, vault, and dome, and of the Gothic system of vault and buttress. Construction and details of steel skeleton buildings. Practical applications are made to a series of problems in design for specified cases. *Ricker's Notes on Advanced Graphics; Freitag's Architectural Engineering; Ricker's Translation of Wittmann's Arch and Vault.* *I.*; *Tu., Th.*; *3*; *II.*; *M., W., F.*; *4*; (3). Professor WHITE.

*Required:* Math. 2, 4, 6, 7, 9; Theoretical and Applied Mechanics 1, 2; Architecture 2, 3, 5.

20. Prescribed.

Any courses offered in Art and Design amounting to three semester hours. *I., II.*; *daily*; (3). Mr. LAKE.

21. Optional.

Any advanced courses offered in Art and Design. *I., II.*; *daily*; Professor FREDERICK.

*Required:* Architecture 20.

The art and design courses offered as Architecture 20 and 21 are varied to meet the special needs of students of architecture.

22. RENAISSANCE DESIGN.—A study of Architectural Design applied to large problems. *I.*; *W., Th., F.*; *6, 7, 8*; (3). Assistant Professor TEMPLE.

*Required:* Architecture 17, 18.

23. GOTHIC DESIGN and (24) ROMANESQUE DESIGN.—Courses 23 and 24 are taken together. A prescribed series of tracings of important details is made, and problems in construction and design are worked out as fully as time permits. *Ricker's Translation of "Redtenbacher's Leitfaden."* I.; lecture, M.; 1; drawing, M., W., F.; 2, 3; (3). Professor WHITE.

*Required:* Architecture 6, 7, 11, 14, 18, 20 or 21.

25. DESIGN OF ORNAMENT.—The study of the design of architectural ornament to decorate the structural forms usually found in practice. These designs will be in charcoal or crayon at as large a scale as possible. *Lectures, Meyer's Hand-book of Ornament.* II.; lecture, M., 2; drawing, W., F.; 1, 2, 3, 4; (3). Assistant Professor TEMPLE.

*Required:* Architecture 6, 7, 11, 17, 18, 20.

27. DOMESTIC ARCHITECTURE.—Instruction in this subject will be given only in connection with courses in Household Science 2 and 3. Professors RICKER and WHITE; Assistant Professor McLANE.

28. MURAL DECORATION.—Includes the study and analysis of some of the best examples of modern decorated interiors; the appropriate use of various materials; the rendering of scale drawings in color, with especial reference to the esthetic effect produced by various harmonies of color. I.; Tu., 2, 3, 4; Th.; 1, 2, 3; II.; Tu., 1, 2, 3, 4; Th., 1, 2; (2). Professor WELLS.

29. SHORT HISTORY OF ARCHITECTURE.—(Elective for students in the College of Science or Literature and Arts.) A careful study of the important historical styles of architecture, their origins, systems of construction, elementary forms, decoration by sculpture and painting, chief kinds of buildings, and a series of selected examples, illustrated by lantern slides. Offered to not less than four students. *Two weekly lectures with reading of Hamlin's History of Architecture.* I.; arrange time; (2). Professor RICKER.

30. THESIS.—The preliminary work on the thesis is begun during the first semester, but no special time is set apart on the program nor any credit granted for it during this semester.

In the second semester credit may be given to the amount of six hours in architecture and four hours in architectural engineering, and a regular time shall be assigned on the program for this part of the work, but the amount of time so prescribed shall in no

case be considered to be the total thesis requirement. Professors RICKER, WHITE, and WELLS; Assistant Professor TEMPLE.

31. ARCHITECTURAL READINGS.—Reading of French or German architectural books for obtaining an acquaintance with technical terms in those languages. Work in either or both languages is offered to architectural students. *Laloux' Architecture Grecque; Palustre's Architecture Renaissance; Hauser's Styl-Lehre; Janecke's Der Architekt. I. and II.; M., 6; (1)*. Professor RICKER.

*Required:* French or German 10.

32. WATER COLOR RENDERING.—*I.; Tu.; Th.; 1, 2; (1)*. Optional for juniors in Architecture. Professor WELLS.

### COURSES FOR GRADUATES

#### Primary

- 101. Construction of Extensive Wooden Buildings.
- 102. Recent Uses of Stone, Brick, and Terra Cotta in Architecture.
- 103. Metallic Skeleton Buildings.
- 104. Fire-resisting and Fire-proof Buildings.
- 105. Sanitation of Public and Semi-public Buildings.
- 106. Researches on the Evolution of Architectural Styles.
- 107. Higher Applications of Graphic Statics.
- 108. Heating and Ventilation of Large Buildings.
- 109. Higher Studies in Architectural Design.
- 110. Researches and Experiments in Applied Esthetics.
- 111. Translation of an approved Technical Architectural Work from the French or German.
- 112. Indexing and Classification of Periodicals, Books, Data, and Technical Information for Architects and Engineers.

#### Secondary

- 113. Stereotomy Applied to American Problems.
- 114. Examinations of Heating and Ventilation of Buildings.
- 115. Photography for Architects.
- 116. Methods of Reproducing Drawings, Specifications, etc., for Architects.
- 117. Higher Problems and Methods in Perspective.
- 118. Practice in Estimates, Specifications, etc., for Large Buildings.
- 119. Higher Industrial Design.
- 120. Advanced Water-color Painting.

121. Study of Office Methods and Arrangements.
122. Any *primary* offered in the College of Engineering.
123. Electric Lighting and Wiring for Buildings.

## ART AND DESIGN

Professors FREDERICK and WELLS, Assistant Professor LAKE and Miss JONES.

1. FREE-HAND DRAWING.—An elementary course offering, first, lectures on the principles of perspective followed by drawing practice, and, second, work arranged to be of direct assistance to the students in their several courses in the University. All students entering the department are required to enter this class or pass an examination in the subject. *I.*; section *A*, daily; 1, 2; (3); section *B*, M., W., F.; 3, 4; section *C*, Tu., Th., Sat.; 3, 4; section *D*, M., W., F.; 6, 7; (2). *II.*; daily; 1, 2; (3). Assistant Professor LAKE.

2. LIGHT AND SHADE.—Study of values in charcoal pencil, or monochrome wash as a preparation for advanced work, especially courses 4 and 5. *II.*; section *A*, M., W., F.; 3, 4; section *B*, Tu., Th., Sat.; 3, 4; section *C*, M., W., F.; 6, 7; (2). Assistant Professor LAKE.

*Required:* Art and Design 1.

3. ANTIQUE CLASS.—Study of casts from the antique, including details of the face, masks, busts and the figure. This course aims to give students a sound knowledge of the principles of the construction of the figure and prepare them for intelligent work from life. *I., II.*; daily; 3, 4; (3). Professor FREDERICK.

*Required:* Art and Design 1.

4. STILL-LIFE PAINTING.—Still-life and flowers in oil, water-color, or pastel. *I., II.*; section *A*, M., W., F.; 3, 4; section *B*, M., W., F.; 6, 7; (2). Miss JONES.

*Required:* Art and Design 1, 2.

5. LANDSCAPE AND PORTRAIT PAINTING.—This class works out-of-doors from landscape and the figure when the weather is suitable. During the winter a model sits each day. Students in course 3 whose work is of high grade are admitted to this class to draw the head in charcoal. *I., II.*; M., W., F.; 6, 7, 8; (3). Professor WELLS.

*Required:* Art and Design 1, 2, 3, 4.

8. MODELING.—A course in clay modeling comprising work from the antique and from life in relief and the round. Instruction is given in casting. *Frederick's Plaster Casts and How they are Made. I., II.; Tu., Th.; 6, 7, 8; (2).* Professor FREDERICK.

*Required:* Art and Design 1 or 3.

8a. Special section of course 8 for the study of ornament for architectural students. *I., II.; Tu. or Th.; (1).* Professor FREDERICK.

*Required:* Art and Design 1 or 3.

10. PEN RENDERING AND ETCHING.—In this course drawings are made with special reference to the requirements of the reproductive processes. Instruction is given in copper plate etching and chalk plate engraving. Lectures on the graphic arts and process engraving. *I.; S.; 2, 3, 4; (1).* Professor FREDERICK and Assistant Professor LAKE.

*Required:* Art and Design 1.

12. APPLIED DESIGN.—This course offers a review of the principles of design, followed by practical problems worked out in pyrography, mosaic, embroidery, etc. *I., II.; daily, 1, 2; (3).* Miss JONES.

*Required:* Art and Design 1.

14. PERSPECTIVE.—Lectures upon the principles of mechanical perspective. The problems given are arranged to have a direct bearing upon the work of other courses in the department. *I., II.; Tu.; 5; (1).* Professor FREDERICK.

16. COLOR.—The use of color in design and in interior decoration. The aim of this course is to develop color appreciation. *I., II.; Th.; 5; (1).* Professor FREDERICK.

19. HISTORY AND CRITICISM OF THE ART OF PAINTING.—Weekly illustrated lectures. *I., II.; arrange time; (1).* Professor WELLS.

20. TEACHERS' CLASS.—In this class an application of the work offered by the department is made to the public school problems. Published courses of art study for the public schools are compared, and the class plans and arranges a course of art study for the eight grades of the public schools. *I., II.; arrange time; (1).* Professor FREDERICK.

*Required:* Art and Design 1, 2, 4.

## ASTRONOMY

Dr. STEBBINS.

1. ELEMENTARY ASTRONOMY.—This is a course for beginners and does not require mathematics. From lectures and the text, the student will be given a general view of the subject, and this class room work will be supplemented by direct observation of the sky. Besides identifying the principal constellations, each student will follow such changes as the motions of the moon and planets, and the fluctuations of variable stars. Some simple work will be done with the instruments of the observatory, but emphasis will be laid on those observations which can be made without apparatus, and which the student can do in after life. *I.; M., W., F.; 4; (3).* Dr. STEBBINS.

3. GENERAL ASTRONOMY FOR ENGINEERS.—This course is intended to be taken with course 6 by engineers. In the class room is given a general view of the subject, which will be supplemented by the observational work of the practical course. *II.; M., W., F.; 3; (3).* Dr. STEBBINS.

*Required:* Mathematics 4, 6, 7 or 8a.

4. GENERAL ASTRONOMY.—This is a beginners' course similar to astronomy 1, but more extended in its scope. *II.; daily; 4; (5).* Dr. STEBBINS.

5. ADVANCED DESCRIPTIVE ASTRONOMY.—This is a continuation of course 1 or 4. Some time is spent on the elementary theory of the spectroscope and its application to astronomical work. The student is assigned readings in the recent literature of the science, and is given an idea of the present methods of research. *I.; M., W., F.; 6; (3).* Dr. STEBBINS.

*Required:* Astronomy 1 or 4.

6. PRACTICAL ASTRONOMY.—This course is offered especially for engineers. Rough and accurate determinations of latitude, azimuth, and time, are the essential parts of the course; and emphasis is laid on the methods which the engineer will be able to use with the ordinary surveyor's transit. The necessary amount of spherical trigonometry is given at the beginning of the work. This course is also designed to train the student in the art of computing. *Comstock's Field Astronomy for Engineers. II.; Tu., Th.; 3; (2).* Dr. STEBBINS.

*Required:* Mathematics 4, 6, 7 or 8a.

7. THEORETICAL ASTRONOMY.—This course begins with the elementary theory of the motions of the heavenly bodies, and is intended to lead the student up to the actual computation of a cometary orbit. *I., II.; arrange time; (3).* Dr. STEBBINS.

*Required:* Mathematics 1, 3, 8a, 8b or 7, 9.

9. CELESTIAL MECHANICS.—A continuation of course 7. Introduction to the theory of disturbed planetary motion. *I., II.; arrange time.* Dr. STEBBINS.

*Required:* Mathematics 16; Astronomy 7.

14. OBSERVATIONAL ASTRONOMY.—The laboratory method of presentation is exclusively used in this course. Direct observational studies of celestial phenomena, with and without instrumental aid. The problems set for solution are largely individual. Advanced students are introduced to the working methods of an astronomical observatory. *I., II.; arrange time; (2).* Dr. STEBBINS.

*Required:* Mathematics 1, 3; Astronomy 1 or 4.

## BOTANY

Professor BURRILL, Assistant Professor HOTTES, Mr. GLEASON, Miss LATZER, Mr. DEWEY, Mr. BARRETT, and Miss DAY.

1. HISTOLOGY AND PHYSIOLOGY.—General vegetable histology and vegetable physiology, or study of the cells and tissues of plants and their courses of development in structures and organs; and studies in the general activities of plants correlated with external conditions. *II.; 6, 7; (5).* Assistant Professor HOTTES, Mr. BARRETT, and Miss DAY.

*Required:* Entrance credit in Botany, or Botany 11; Chemistry 1; Art and Design 1.

2. MORPHOLOGY.—The general morphology and taxonomy of plants, including a study of selected types. Occasional field excursions. *I.; 6, 7; (5).* Professor BURRILL and Mr. DEWEY.

*Required:* Entrance credit in Botany, or Botany 11; Art and Design 1.

In courses 1 and 2 taken together, either in the order of the numbers or the reverse, there is offered a comprehensive treatment of the subject, to serve the double purpose of an introduction to the science for those who desire to continue the study, and as a complete course for general students. Each semester's work is, however, independent, and may be separately credited.



3. CYTOLOGY AND PHYSIOLOGY.—Mostly laboratory work and assigned reading. The course extends through the year, but the work of each semester may be credited separately under the designations of 3a and 3b. The first semester is devoted mainly to cytology and histology, with special attention to technique; during the second semester experimental physiology receives chief attention. *I., II.; 3, 4; (5)*. Assistant Professor HOTTES.

*Required:* Botany 1.

4. TAXONOMY OF SPECIAL GROUPS.—Mostly laboratory and herbarium work, and assigned reading. Field excursions are required. The course extends through the year, but the work of each semester may be credited separately under the designations of 4a and 4b. The first semester is devoted mainly to spermaphytes, the second to sporophytes. *I., II.; 1, 2; (5)*. Professor BURRILL.

*Required:* Botany 2.

5. BACTERIOLOGY.—An introduction to the knowledge of the subject and instruction in methods. *II.; 3, 4; (5)*. Professor BURRILL and Miss LATZER.

*Required:* Chemistry 1, and at least one semester's work in botany or zoölogy, in the University.

6. BACTERIOLOGY FOR SANITARY ENGINEERS.—Bacteriological methods and their application in water analysis and sewerage. *I. (last seven weeks); daily; 3, 4; (2)*. Professor BURRILL and Miss LATZER.

7. PLANT PATHOLOGY.—Diseases and injuries of plants. Mostly laboratory, herbarium, and field work, and assigned reading. *I.; M., W., F.; 1, 2; (3)*. Professor BURRILL.

*Required:* Botany 1, 2.

8. ECONOMIC BOTANY.—Useful plants and plant products. Lectures and assigned reading. *I.; Tu., Th.; 1, 2; (2)*. Professor BURRILL.

9. INVESTIGATIONS AND THESIS.—Research work upon selected subjects. Special arrangements for this work should be made during the preceding year. *I., II.; arrange time; (5)*. Professor BURRILL and Assistant Professor HOTTES.

*Required:* Botany 1, 2 and at least one year from 3, 4, 5, 7.

10. SEMINARY.—Reports and discussions upon assigned topics and results of research work. For advanced and graduate students. *I., II.; F.; arrange time; (1)*. Professor BURRILL.

11. **INTRODUCTORY COURSE.**—Elementary work chiefly upon flowering plants, including their general structure, activities, life-relations, and classification. The laboratory work is supplemented by field observations and by the study of text. The work during the first nine weeks is upon the structures and organs of plants, and upon the classification of specimens; afterward anatomy, physiology and ecology have chief attention. The first half is recorded as course 11a. The course as a whole is planned to offer general students an opportunity of gaining elementary knowledge of the vegetable kingdom. *I.*; 6, 7, ( $2\frac{1}{2}$ , or 5). Assistant Professor HOTTES, Mr. BARRETT and Miss DAY.

12. **LECTURES AND DEMONSTRATIONS UPON BACTERIA.**—An elementary course in which is presented the facts concerning the existence, size, form, life processes, and effects of bacteria and allied organisms, with special attention to those of economic importance, or of most common utility or detriment to man. *I.*, first half; 8; (1). Professor BURRILL.

13. **GERMAN READINGS.**—A study of botanical literature in German, intended to give technical information and practice of accurate and rapid reading. This course, together with zoölogy 12, will be accepted instead of German 6 of the prescribed list of all except students in chemistry and chemical engineering. *I.*, *II.*; *arrange time*; (2). Assistant Professor HOTTES.

*Required:* German 4.

#### COURSES FOR GRADUATES

101. **BIOLOGICAL BOTANY.**—The preparation and study of material by histological and embryological methods, and experiment work with living vegetation in the laboratory and field in working out special problems in the development, physiology, and pathology of plants.

102. **SYSTEMATIC BOTANY.**—Critical and comparative studies of species included in chosen groups of spermaphytes or sporophytes, or from selected geographic areas, in connection with considerations of genealogic development, geographic distribution, and inter-related association.

103. **BACTERIOLOGY.**—Investigations upon morphologic and physiologic variation due to treatment; systematic studies upon the number, validity, and relationship of species, researches upon special saprophytic or parasitic kinds of bacteria and upon methods of favoring or combating their activities.

104. EVOLUTION OF PLANTS.—Observations and experiments upon plants and studies in related literature, in gaining information upon such topics as the following: The influence of environment, effects of self and cross fertilization, tendencies of variation, philosophy of selection, nature and laws of heredity.

## CHEMISTRY

Professors \*PALMER and PARR; Associate Professor GRINDLEY; Mr. SAMMIS, Dr. LINCOLN, Mr. STARK, Dr. DEHN, Dr. WALTON, Dr. BRYAN, Mr. WILLIAMS, Mr. CLARK, Mr. HUESE, Miss HOFF, Mr. INGLES.

I. ELEMENTARY AND EXPERIMENTAL CHEMISTRY.—This course deals with the general principles of the science.

*Remsen's College Chemistry. I; Lecture, Tu., Th., 4.*

*Section A (Chemical Science and Med. Prep.), Lab., Tu., Th., Sat., 2, 3; Quiz, W., F., 1.*

*Section B (Agricultural and Household Science), Lab., M., W., F., 3, 4; Quiz, Tu., Th., 3.*

*Section C (Literature and Arts), Lab., M., W., F., 6, 7, or 7, 8; Quiz, Tu., Th., 7.*

*Section D (Mech. Engineers), Lab., Tu., 6, 7, 8; Quiz, Tu., Th., 3.*

*Section E (Mech. Engineers), Lab., Th., 6, 7, 8; Quiz, Tu., Th., 3.*

*Section F (Civil Engineers), Lab., Tu., 6, 7, 8; Quiz, W., F., 7.*

*Section G (Civil Engineers), Lab., Tu., Th., 1, 2; Quiz, W., F., 2.*

*Section H (Elect. Engineers), Lab., Tu., 6, 7, 8; Quiz, M., 4, W., 6.*

*Section I (Elect. Engineers), Lab., Th., 6, 7, 8; Quiz, W., 4, F., 6.*

*Section J (Mun. and San. Engineers and Arch.), Lab., Tu., Th., 1, 2; Quiz, M., W., 4.*

*Section K (Arch. Engineers), Lab., Th., 6, 7, 8; Quiz, M., 4, W., 6. For engineers (4); for all others (5). Associate Professor GRINDLEY, Mr. SAMMIS, Dr. DEHN, Dr. BRYAN, Mr. WILLIAMS, Mr. CLARK, Mr. HUESE, Miss HOFF, Mr. INGLES.*

1a. MINOR COURSE—ELEMENTARY AND EXPERIMENTAL CHEMISTRY.—Similar to I, but consisting chiefly of recitations and laboratory work. *Remsen's College Chemistry, II.; Recitations, Tu., Th., S., 1; Laboratory, M., W., F., 1, 2 or 2, 3 (5).* Mr. SAMMIS and Mr. WILLIAMS.

2. DESCRIPTIVE INORGANIC CHEMISTRY.—This course is required

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\*Died Feb. 3, 1904.

of all chemical students. It is mainly devoted to a study of the metallic elements, their classification, compounds, and chemical properties. The work is from lectures and assigned text, without laboratory work. *Richter's Inorganic Chemistry. II., Section A., M., W., F.; 2; Section B., M., W., F., 3; (3).* Dr. BRYAN.

*Required:* Chemistry I.

2a. INORGANIC PREPARATIONS.—A laboratory course designed to accompany the descriptive work of course 2. The work includes the precipitation, crystallization, and purification of various salts, the material being largely obtained from laboratory wastes. *Thorp's Inorganic Chemical Preparations. II.; M., W., F.; 3, 4; (2).* Dr. DEHN.

*Required:* Chemistry I.

3a. QUALITATIVE ANALYSIS.—This course includes a study of salts, their formation, solubilities, chemical reactions, etc. The periodic classification of the elements is made the basis for developing the principles of analysis. The work in the laboratory, after illustrating these principles, is occupied with the determination of basic and acid constituents of a given number of unknown substances. Analysis is also made of more complex substances, including natural and commercial products; and the work concludes with a comparative study of methods, difficult separations and problems in synthesis. *I.; daily; 1, 2; (5). II.; Lecture, Tu., Th.; 2; Laboratory, daily; section A, 3, 4; section B, 6, 7, or 7, 8; section C, M., W., F., 6, 7, 8; (5).* Associate Professor GRINDLEY, Mr. SAMMIS, Dr. BRYAN, Mr. WILLIAMS and Mr. CLARK.

*Required:* Chemistry I.

3b. QUALITATIVE ANALYSIS, MINOR.—This course is arranged to meet the wants of Agricultural and Science students. *II. (first half); Lecture, W., F.; 3; Laboratory, daily, including Sat., 3, 4; (2½).* Associate Professor GRINDLEY, Mr. SAMMIS, Dr. BRYAN, Mr. CLARK, Mr. HEUSE and Miss HOFF.

*Required:* Chemistry I.

4. ELEMENTS OF ORGANIC CHEMISTRY, MINOR.—A brief course in organic chemistry provided especially for students of agriculture and general science. The work includes consideration of the general characteristics and the mutual relations of certain of the more important classes of carbon compounds, particularly the fats, the carbohydrates, and the proteids. *II. (last half); Lecture, M., W., F.; 3; Laboratory, Tu., Th., Sat.; 3, 4; M., W., F., 4; (2½).* Associate

Professor GRINDLEY, Mr. SAMMIS, Dr. BRYAN, Mr. CLARK, Mr. HEUSE and Miss HOFF.

*Required:* Chemistry I, 3b.

5a. ELEMENTARY QUANTITATIVE ANALYSIS.—The laboratory work comprises a series of experiments which illustrate the fundamental principles of gravimetric and volumetric methods. The lectures and recitations consist of a consideration of stoichiometrical relations, the fundamental laws of chemistry and their application to the study of solutions. Special emphasis is placed upon the reasons for the choice of methods, the sources of experimental errors, and the means of avoiding them. Dexterity in the manipulation and in the calculating of results is developed.

During the last few weeks the work is differentiated in order, on the one hand, to meet the needs of those students who are taking the course preliminary to medicine, and, on the other hand, to fulfill the requirements of those who expect to graduate in chemistry. Reading is assigned in Fresenius, Cairns, Ostwald, Sutton, and Blair. *I.*; *Lectures, Tu., Th.; 5; Laboratory, 10 periods per week in two sections. Section A (medical), M., W.; 6, 7, 8; F.; 5, 6, 7, 8; section B (chemical), Tu., Th.; 6, 7, 8; Sat.; 1, 2, 3, 4; (5).* Dr. LINCOLN and Dr. WALTON.

*Required:* Chemistry 3a or 3b, 4.

5b. ADVANCED QUANTITATIVE ANALYSIS.—The quantitative separation and determination of the elements are discussed systematically in the lectures, and in the laboratory more or less complicated analyses of mixed salts, silicates, and other refractory materials are assigned, depending somewhat on the needs of the individual student. Results of a much higher degree of accuracy than those required in 5a will be expected. *I. and II.; Lectures, M.; 2; Laboratory, 6 to 12 periods per week; (3 or 5).* Dr. LINCOLN.

*Required:* Chemistry 5a.

5c. FOOD ANALYSIS.—This course includes the analysis of food stuffs, grains, milled products, alcoholic beverages, baking powders, vinegars, syrups, sugars, etc. Students who have taken work amounting to five hours' credit in this course may arrange to do more advanced work along the following lines: (a) the study of methods for detecting food adulterations; (b) the separation and determination of the nitrogenous constituents of animal and vegetable foods; (c) the identification and estimation of the carbohydrate constituents of food products. *II.; Lecture, Tu; 6;*

Laboratory, 6 to 12 periods per week; arrange time; (3, 5). Dr. WALTON.

*Required:* Chemistry 5a, 4 or 9.

6a. CHEMICAL TECHNOLOGY.—This is a course of lectures comprising a study of technological chemistry as illustrated in those industries having a chemical basis for their principal operations and processes. Much use is made of the journals. *Thorpe's Industrial Chemistry* is used as a guide. No laboratory work. I.; Tu., Th.; 3; (2). Professor PARR.

*Required:* Chemistry 5a.

6b. METALLURGY.—Special attention is given to the effect of impurities in ores upon metallurgical processes and finished products. Fuels, refractory materials, and fluxes are described and their value and applications explained. II.; Tu., Th.; 2; (3). Professor PARR.

8. IRON AND STEEL ANALYSIS.—Analyses are made of all the constituents by both rapid, or technical, and standard methods. The course also includes the analysis of furnace slags and a study of the methods for decomposing ores and refractory products. II.; Lecture, M., 4; Laboratory, arrange time; (2). Professor PARR and Dr. WALTON.

*Required:* Chemistry 5a.

9. ORGANIC CHEMISTRY.—The work of this course consists in the discussion of the characteristics of the more typical and simple organic compounds, followed by a brief consideration of most of the important classes of derivatives of carbon. *Remsen's Organic Chemistry*. Must be accompanied by either 9a or 9c. II.; M., W., F.; 2; (3). Professor ——— and Dr. DEHN.

*Required:* Chemistry 2, 5a.

9a. ORGANIC SYNTHESIS AND ANALYSIS.—Laboratory work for students of the chemical course, consisting of the preparation of typical organic compounds, and ultimate organic analysis. II.; Laboratory, 6 periods per week; arrange time; (2). Professor ——— and Dr. DEHN.

9b. ORGANIC SYNTHESIS AND ANALYSIS.—Continuation of 9a, to accompany Chemistry 14. I.; Laboratory, 6 periods per week; arrange time. Professor ——— and Dr. DEHN.

9c. ORGANIC SYNTHESIS AND ANALYSIS.—Laboratory work in organic chemistry for students of the medical preparatory course. A few typical organic compounds are prepared, but the work con-

sists mainly in a study of the chemical reactions and transformations of such organic substances as are especially involved in processes of nutrition or are used in medical practice. *II.; Laboratory, 6 periods per week; arrange time; (2).* Professor ——— and Dr. DEHN.

10. SANITARY ANALYSIS.—The work consists in the examination and analysis of potable and mineral waters, air, etc. *I.; Tu., Th., Sat.; 3, 4; (2).* Dr. WALTON.

*Required:* Chemistry 5a or 20.

11. RESEARCH.—In the senior year a special line of work is arranged for each individual, designed particularly to develop self-reliance and initiative in dealing with new problems or topics needing comparative study or review. A thesis must be prepared embodying a thorough review of the literature of the subject, together with the work done in the laboratory. As far as possible the subject must be determined upon and reading begun in the junior year. A seminary is arranged for reports and discussion. A minimum of five semester hours is required. *I., II.; arrange time; (5).* Professor PARR, Associate Professor GRINDLEY, Dr. LINCOLN and Dr. DEHN.

12. THEORETICAL CHEMISTRY.—A brief historical survey of the development of the science, from the earliest times to the present. The course includes the discussion of the evolution of ideas concerning fundamental principles, laws, and theories of chemistry, description of the applications of chemistry in related sciences, and the growth of important chemical industries. Lectures and assigned reading. *II.; M., W.; 2; (2).* Professor ———.

*Required:* Chemistry 4 or 9, 5a, 31.

13. AGRICULTURAL CHEMISTRY.—A course of lectures upon the chemical principles involved in Agriculture. This course treats of the chemistry of the soil, atmosphere, fertilizers, nutrition of plants and animals, and the composition and utilization of the products of the farm. *I.; M., W., F.; 8; (3).* Associate Professor GRINDLEY.

*Required:* Chemistry 13a.

13a. AGRICULTURAL ANALYSIS.—This course is arranged to meet the special wants of agricultural students. The work begins with the quantitative determination and separation of the more important constituents of soils, fertilizers, and agricultural products; it includes the chemical analysis of foodstuffs, such as grains, fod-

ders, dairy products and meats. *I.*; *Lecture, Sat., 2; Lab., 3-4;* (5). Dr. LINCOLN and Dr. WALTON.

*Required:* Chemistry 3a or 3b, 4.

13b. **ADVANCED AGRICULTURAL ANALYSIS.**—This course is offered to students who wish to specialize in agricultural chemistry or agricultural experimentation. The work includes the analysis of butter and cheese, the complete analysis of foods, soils, plants, plant ash, rain and drain waters, and the determination of the fuel value of foods. If desirable, the work may be varied to meet the special needs of the individual student. *II.*; *daily; 7, 8; (3-5).* Dr. LINCOLN and Dr. WALTON.

*Required:* Chemistry 5a, or 13a.

14. **ORGANIC CHEMISTRY.**—Special chapters of organic chemistry. *Richter's Organic Chemistry.* Must be accompanied by 9b. *I.*; *M., W., F.; 3; (3).* Professor ——— and Dr. DEHN.

*Required:* Chemistry 9.

15. (a) and (b) **METALLURGICAL CHEMISTRY.**—This course includes (a) the wet assay of copper, lead, zinc, and other ores, arsenical and complex as well as the simpler forms; also the analysis of finished metallurgical products, as commercial lead, spelter, copper, etc.; during the last half of the term the work is occupied with (b) the fire assay of lead, gold and silver ores. Fluxes, reagents, and charges are studied in connection with various typical ores, and practice given in use of the crucible and muffle furnaces and in the manipulations connected with fire assaying. *I.*; *Lecture, W., 4; Laboratory, arrange time; (2 each).* Professor PARR and Dr. WALTON.

*Required:* Chemistry 5a; Geology 5.

15. (c) and (d). **ELECTRO-CHEMICAL ANALYSIS.**—A study (c) of methods and practice in quantitative determination by electrolytic separation and decomposition of metals and compounds. and (d) a study of the methods employed in the electrolytic separation and refining of metals, treatment of ores, etc. *II.*; *arrange time; (1 to 3).* Professor PARR and Dr. WALTON.

*Required:* Chemistry 15a.

16. **CHEMISTRY FOR ENGINEERS.**—This course is arranged particularly for mechanical engineers. It involves the proximate analysis of coals, determination of calorific power, technical analysis of furnace gases, examination of boiler waters, lubricating oils, etc. *II.*; *section A, Tu., F.; 2, 3, 4; section B, W., Th.; 2, 3, 4; section*



C, Tu., Th., F.; 2, 3; (3). PROFESSOR PARR, Mr. SAMMIS and Mr. INGLES.

*Required:* Chemistry I.

17. INDUSTRIAL CHEMISTRY.—A laboratory course in the preparation of chemical products from raw materials. The manufacture and proving of pure chemicals, fractionation, and other processes of the manufacturing chemist. *II.; arrange time; (2)*. PROFESSOR PARR.

*Required:* Chemistry 5a.

18. SPECIAL COURSES.—Special courses as indicated below, consisting mainly of laboratory work, may be arranged for those competent to pursue them. From 1 to 10 hours' credit will be allowed in the undergraduate courses for such work.

(a). Special problems in assaying and ore treatment. Free-milling chlorination and cyanide tests. PROFESSOR PARR and Dr. WALTON.

(b). Advanced Metallurgical Chemistry. PROFESSOR PARR.

(c). Analysis and Calorimetry of Fuels. PROFESSOR PARR.

(d). Paints, oils, etc. Protective coverings for wood and iron. PROFESSOR PARR.

(e). Analysis of Commercial Fertilizers. Dr. WALTON.

19. SEMINARY.—Reports and discussions upon assigned topics from current chemical literature. One session each fortnight. *I., II.; S.; 2; (1)*. PROFESSOR PARR, Associate Professor GRINDLEY, Dr. LINCOLN and Dr. DEHN.

20. QUANTITATIVE ANALYSIS.—An elementary course intended especially for students who desire some training in the process of quantitative analysis, but have not the time to enter the regular course in this subject. The laboratory work is practically the same as that offered in course 5a; but the selection of exercises may vary according to the needs of the individual student. *I., or II.; arrange time; (2-5)*. Dr. LINCOLN.

*Required:* Chemistry I, 3a or 3b and 4.

21. PROXIMATE ORGANIC ANALYSIS.—Analysis and valuation of various commercial organic materials and products: (a) Pharmaceutical assaying, including the valuation of drugs and various pharmaceutical preparations, tinctures, extracts, etc., etc.; (b) analysis of proprietary articles, medicines, pills, ointments, salves, etc.; (c) fats, waxes, oils, perfumes, flavoring extracts; (d) dyestuffs. Analysis, tests and identification of raw materials, coloring matters and

dyes upon the fiber; (c) rubber, paper, fibers, inks, glue, etc. *Allen's Commercial Organic Analysis, Sadtler and Trimble's Pharmaceutical Chemistry. I. or II.; arrange time; (5 or 10).* Professor ——— and Dr. DEHN.

24. TOXICOLOGY.—Mainly laboratory work upon the detection and estimation of the more common poisons, organic and inorganic, wall papers, etc. *I., II.; daily; 6, 7; (5).* Professor ——— and Dr. DEHN.

*Required:* Chemistry 2, 3b, 5a, and either 4 or 9.

25. URINALYSIS.—Chemical and microscopical examination of urine. *I. or II.; Laboratory 6 periods; arrange time; (2).* Dr. DEHN.

*Required:* Chemistry 2, 3b, 5a.

26. ADVANCED QUALITATIVE ANALYSIS.—Qualitative analysis of minerals, ores, and commercial products. Special effort is made to so familiarize the student with the properties of commercial minerals, and ores, and their industrial products, that he can recognize and identify them by appearance or by simple chemical and physical tests. A considerable variety of specimens is available for the use of the student. The course is intended mainly for chemical and engineering students who expect to specialize along the lines of metallurgy and mining. *II.; daily; 6, 7; (3).* Professor PARR and Mr. SAMMIS.

*Required:* Chemistry 1 and 3a, 3b or 16.

27. QUALITATIVE ANALYSIS OF THE RARE ELEMENTS.—A detailed study of the rare elements and their compounds. The work consists mainly in the identification and separation of the elements and the study of the formation, solubilities, and chemical reactions of their salts. Reading is assigned in connection with laboratory work. *II.; daily; 6, 7; (3).* Associate Professor GRINDLEY and Dr. BRYAN.

*Required:* Two years' work in Chemistry.

28. METHODS OF QUALITATIVE ANALYSIS.—This course consists in the study and investigation of new and special methods of qualitative analysis. *I.; arrange time; (3-5).* Associate Professor GRINDLEY and Dr. BRYAN.

*Required:* Two years' work in Chemistry.

29. TECHNICAL GAS AND FUEL ANALYSIS.—Examination of gases, gas mixtures, flue gases and fuels. Determination of calorific

values and calculation of efficiencies. *I.; Lecture, F.; 4; Laboratory, arrange time; (2).* Dr. LINCOLN.

30. EXACT GAS ANALYSIS.—A more extensive course than 18a, wherein the most exact methods are employed. *Hempel's Gas Analysis and assigned readings. I.; arrange time; (3).* Dr. LINCOLN.

*Required:* Chemistry 5a.

31. ELEMENTARY PHYSICAL CHEMISTRY.—This course, extending through one semester, is designed to give an elementary knowledge of the paramount facts of physical chemistry, and their relation to common and practical chemical problems. The instruction is by lectures and recitations, supplemented by work in the laboratory. *Walker's Introduction to Physical Chemistry. II.; Lectures. M., W., F., 1; Laboratory, 6 periods per week, Tu., Th.; 6, 7, 8; (5).* Dr. LINCOLN.

*Required:* Chemistry 5a, 9; Physics 1, 3.

32. PHYSICAL CHEMISTRY.—This is a general course of lectures and recitations extending throughout the year, and is designed for those students of chemistry and physics who desire more extensive work than course 31 affords. A knowledge of differential calculus is desirable. It is recommended that this course be supplemented by laboratory work (Course 33) at least three hours a week. *Walker's Introduction to Physical Chemistry, supplemented by assigned readings. I. and II.; Lectures, Tu., Th.; 1; (4).* Dr. LINCOLN.

*Required:* Chemistry 5a, 9; Physics 1, 3.

33. PHYSICAL CHEMISTRY.—A laboratory course supplementary to course 32. The work consists of a series of experiments, chosen to familiarize the student with the general methods used in technical and theoretical work, the sources of error and the methods of eliminating the same. It comprises a study of the balance, physical properties—density, rotation of the plane of polarized light, refraction, etc.—thermometry, distillation and crystallization, molecular weight determinations, thermo-chemical and electro-chemical measurements, reaction, velocities, etc. *I. and II.; Laboratory, 9 to 15 periods; arrange time; (2-5).* Dr. LINCOLN.

*Required:* Chemistry 5a, 9.

34. ELECTROCHEMISTRY.—Lectures and Recitations. This course, which includes the modern theories of solutions, comprises a detailed study of the practical applications of electricity to chemical

industrial processes, the refining of metals and their electrodeposition. Intended for students going into technical work. It is recommended that this course be supplemented with laboratory work (Course 35). *Leblanc's Electrochemistry and Blount's Practical Electrochemistry. I.; Lectures, M., W., F.; 1; (3); II.; Lectures, M., W., F.; 4; (3).* Dr. LINCOLN.

*Required:* Chemistry 1, 3a or 3b; Physics 1, 3.

35. ELECTROCHEMISTRY.—Laboratory work to accompany lecture course 34. This course is intended for students going into technical work and for engineers. Special emphasis is placed upon a study of the electrochemical products and the percentage yield as influenced by the current density, the kind of electrodes employed, as well as by changes in the temperature and in the concentration. *I. or II.; arrange time; (2-5).* Dr. LINCOLN.

*Required:* Chemistry 5a or 20; Physics 1, 3.

36. SPECTROSCOPIC ANALYSIS.—This course comprises lecture work with laboratory practice. The student will do practical work with the spectroscope in determining qualitatively the constituents of various mixtures, minerals, and solutions by means of the spark, oxyhydrogen flame, and absorption spectra. *I., II.; by appointment; (2-4).* Dr. LINCOLN.

*Required:* Chemistry 4 or 9, 5a, 7a; Physics 1, 3.

41. CHEMISTRY OF MEATS.—A course consisting mainly of laboratory work, in which students may specialize upon any of the following subjects: Chemistry of the cooking of meats; losses involved in the cooking of meats; digestibility of meats; comparative study of the methods for determining the nitrogenous constituents of meats; separation, purification and estimation of the nitrogenous constituents of meats. *I. or II.; arrange time; (5-15).* Associate Professor GRINDLEY.

*Required:* Two years work in chemistry.

42. CHEMISTRY OF ANIMAL NUTRITION.—A course of lectures upon the chemical composition, digestibility, fuel value and nutritive value of foods in their relation to the nutrition of man and the lower animals. *II.; Tu., Th.; 8; (2).* Associate Professor GRINDLEY.

*Required:* Two years work in chemistry.

43. CHEMICAL ARITHMETIC.—This course is designed to give the student practice in the solution of the various stoichiometrical

problems with which the analytical chemist has to deal. *I.; Lecture; F.; 5; (1)*. Dr. WALTON.

51. (a) CERAMICS.—Composition of clays; adaptability. The manufacture of pottery, stoneware, tile, etc. *I.; (2)*.

(b) CEMENTS and MORTARS.—A study of cement materials, compounding and burning. *II.; (2)*. Professor PARR.

### COURSES FOR GRADUATES

Courses 5a to 51, with the exception of 9, 9a, 13a, 16, 20 and 43, may be taken for graduate credit by students not specializing in chemistry. The following courses are for graduates only:

101. ORGANIC CHEMISTRY.—Special investigations in the aliphatic or in the aromatic series.

102. INORGANIC CHEMISTRY.—Research work in general inorganic chemistry, including the critical and constructive study of methods of analysis, both quantitative and qualitative.

103. PHYSICAL CHEMISTRY.—Investigation of special problems, including thermo-chemical research.

104. CHEMISTRY OF FOODS.—Investigations of the composition, fuel value, digestibility, and dietary value of foods, and the chemical changes involved in cooking.

105. AGRICULTURAL CHEMISTRY.—Special investigations in the field of agricultural chemistry, including the chemistry of plants, foods, soils, and rain, drain, and ground waters.

106. RESEARCH IN METALLURGICAL CHEMISTRY.—(a) Action of solvents in extraction of gold and silver from their ores. (b) Methods of analysis of ores and products.

107. INVESTIGATION OF WATER SUPPLIES.—In connection with State Water Survey.

108. INVESTIGATION OF FUELS.—

(a) Heating power, calorimetric methods.

(b) Adaptation of bituminous coal to gas manufacture, purification of products.

(c) Coke and by-products.

109. SPECIAL PROBLEMS IN INDUSTRIAL CHEMISTRY.—

(a) Corrosion and scaling of steam boilers.

(b) Purification of feed water.

(c) Cements and mortars.

(d) Paints and pigments.

## CIVIL ENGINEERING

Professor BAKER, Mr. WEBBER, Mr. MALCOLM, Mr. PARKER, Mr. WATERBURY, Mr. PRATER.

4. RAILROAD ENGINEERING.—In the field practice the class makes preliminary and location surveys of a line of railroad of sufficient length to secure familiarity with the methods of actual practice. Each student makes a complete set of notes, maps, profiles, calculations, and estimates. The principles of economic location and the construction of railways are considered. A study is made of railway appliances and of maintenance-of-way practice. *Nagle's Field Manual for Railway Engineers, and Tratman's Track. I.; section C, M., W., F.; 2, 3, 4; Tu., Th.; 2; section D, Tu., Th.; 6, 7, 8; S.; 1, 2, 3; W., F.; 6; (5).* Mr. WEBBER, and Mr. PRATER.

*Required:* Civil Engineering 21, 22, 23.

4a. RAILROAD ENGINEERING.—The first eleven weeks of course 4 are for students in municipal and sanitary engineering. (3.)

5. MASONRY CONSTRUCTION.—The students have experiments in the masonry laboratory, in testing cement, mortar, stone, and brick. *Baker's Masonry Construction. I.; section C, Tu., W., Th., F.; 1; Laboratory, M.; 6, 7; section D, Tu., W., Th., F.; 3; laboratory, Fri.; 6, 7; (5).* Professor BAKER.

*Required:* Theoretical and Applied Mechanics 2; General Engineering Drawing 1, 2.

10. SURVEYING.—For students in the courses of architecture, architectural engineering, electrical engineering, and mechanical engineering. Areas with chain and compass, U. S. public land surveys, and principles of re-establishing corners; use of transit in finding distances, areas, and in laying out buildings; use of the level in finding profiles and contours. *Pence and Ketchum's Surveying Manual. II.; section A (for Mech. Eng'rs and Arch'ts), M., Th.; 3, 4; section B (for Mech. and Arch. Eng'rs), Tu., S.; 3, 4; section E (for Elect. Eng'rs), Tu., S.; 1, 2; section F (for Elect. Eng'rs), W., F.; 1, 2; (2).* Mr. WEBBER, sections A and B; Mr. PRATER, sections E and F.

*Required:* Math. 4; General Engineering Drawing 1, 2; Physics 1, 3.

12. BRIDGE ANALYSIS.—Instruction and practice are given in the computation of the stresses in the various forms of bridge trusses, by algebraic and graphical methods, under different condi-

tions of loading. *Johnson's Modern Framed Structures. I.; section C, Tu., W., Th., F.; 2; section D, Tu., W., Th., F.; 2; (4).* Mr. MALCOLM.

*Required:* Theoretical and Applied Mechanics 2; for Civil Engineering students, Civil Eng'g 20, and for Architectural Engineers, Arch. 5.

13. BRIDGE DETAILS.—The student makes a tracing of a shop drawing of a bridge, and then makes a critical report upon each element of the design and computes the cost of the bridge. Afterward a comparative study is made of the several forms of details employed by leading designers. *I.; section C, M.; 1, 2, 3; section D, W.; 6, 7, 8; (1).* Mr. MALCOLM.

*Required:* Civil Eng'g 12 and free hand sketches, with dimensions, showing full details of a bridge measured by the student.

14. BRIDGE DESIGN.—Each student designs a bridge, proportioning the sections and working out the details, and afterward makes a complete set of drawings. *II.; sections C and D, daily; 1, 2, 3; (5).* Mr. MALCOLM.

*Required:* Civil Engineering 12, 13.

14a. BRIDGE DESIGN.—Part of course 14 above for Municipal and Sanitary Engineering students. *II.; M.; 1; Tu., W., Th., F.; 1, 2; (3).*

16. ENGINEERING CONTRACTS AND SPECIFICATIONS.—A study is made of the fundamental principles of the law of contract, and of examples of the general and technical clauses of various kinds used in engineering specifications. *Johnson's Engineering Contracts and Specifications. II.; section C, Tu., Th.; 4; section D, Tu., Th.; 7; (2).* Professor BAKER.

*Required:* Civil Engineering 5, 12, 13; Municipal and Sanitary Engineering 2, 3.

18. TUNNELING.—A study is made of the principles of tunneling, and of the practice of the more noted tunnels. *Prelini's Tunneling. II.; sections C and D, M.; 4; and W.; 6; (2).* Professor BAKER.

*Required:* Mechanical Engineering 1, 16, 17; Chemistry 1; Physics 1, 3; Theoretical and Applied Mechanics 2; Civil Eng'g 5.

19. RAILROAD STRUCTURES.—Instruction is given by lectures and references to standard authorities. Current practice is studied by the examination of existing structures and by means of a collection

of the standard drawings of leading railroads. *II.*; *section C, M.*; 6, 7, 8; *section D, F.*; 6, 7, 8; (1). Mr. WEBBER.

*Required:* Civil Eng'g 4; Theoretical and Applied Mechanics 1, 2.

20. GRAPHIC STATICS.—Elements of graphic statics and applications in designing structures. *II.*; *section C, Tu., F.*; *section D, M., Th.*; 6, 7, 8; (2). Mr. MALCOLM.

*Required:* Math. 2, 4, 6; Theoretical and Applied Mechanics 1, 2.

21. SURVEYING.—Instruction is given by means of recitations, lectures, field and office work in the theory, use and adjustment of the compass, level transit, plane table, and sextant. The field work includes the determination of distances by pacing and with the chain and tape; the determination of areas with the compass; transit and plane table; the finding of profiles with the level. A careful study is made of the U. S. land survey methods, and court decisions relating to the re-establishment of corners, boundaries, etc. Problems are assigned in the re-location of boundaries, partition of land, interpretation of deeds and in city and farm surveying. Some time is devoted to topographic drawing. *Baker's Engineers' Surveying Instruments*, and *Pence and Ketchum's Surveying Manual. I.*; *section G, daily*; 1, 2; *section H, daily*; 6, 7; *section I, daily*; 1, 2; *section J, daily*; 6, 7; *section K, daily*; 1, 2; *section L, daily*; 6, 7; (5). Mr. PARKER, *G and H*; Mr. WATERBURY, *I and J*; Mr. ———, *K and L*.

*Required:* General Eng'g Drawing 1, 2; Math. 4.

22. TOPOGRAPHIC SURVEYING.—The theory and use of the stadia and other instruments used in making a topographic survey are considered, as are also the methods of topographic surveying. A complete topographic survey based on a system of triangulation is executed, including the calculations, and platting and completing the map. Some time is given to the precise measurement of bases and angles. Instruction is given in blue-printing and duplicating drawing. *Wilson's Topographic Surveying*, and *Pence and Ketchum's Surveying Manual. II.*; *daily*; *section G, 1, 2*; *section H, 6, 7*; *section I, 1, 2*; *section J, 6, 7*; *section K, 1, 2*; *section L, 6, 7*; (4). Mr. PARKER, *G and H*; Mr. WATERBURY, *I and J*; Mr. ———, *K and L*.

*Required:* Civil Eng'g 21; Gen. Eng'g Drawing 1, 2; Math. 4.



23. RAILROAD CURVES.—A study is made of the geometry of the circle as applied to railroad curves and of the methods of locating curves in the field. *Nagel's Field Manual for Railroad Engineers. II.*; taken in connection with *Topographic Surveying (C. E. 22)*; (1). Mr. PARKER, Mr. WATERBURY, and Mr. ———.

*Required:* Civil Eng'g 21, 22; Gen. Eng'g Drawing 1, 2; Math. 2, 4.

24. METAL STRUCTURES.—A study is made of mill buildings, railroad trestles, mine structures, grain elevators, etc. *I.*; *C, Tu.*; *D, Th.*; 6, 7, 8; (1). Mr. MALCOLM.

*Required:* Civil Eng'g 12, 13, 19, 20.

30. THESIS.—The preliminary work on the thesis is begun in the first semester, a weekly conference being required, but no specific time is set apart on the program for doing the work or for this conference. A credit of one semester hour is allowed for thesis work during the first semester. In the second semester weekly conferences are required, and a credit of two semester hours is granted. The preparation of the thesis may require more time than a three semester-hour subject. *I., II., as assigned*; (3). Professor BAKER.

#### COURSES FOR GRADUATES

All primary unless otherwise stated.

- 101. Location and Construction.
- 102. Railway Track and Structures, and their Maintenance.
- 103. Yards and Terminals.
- 104. Motive Power and Rolling Stock.
- 105. Signal Engineering.
- 106. Railway Operation and Management.
- 107. Bridge Designing.
- 108. Cantilever and Swing Bridges.
- 109. Metallic Arches.
- 110. Metallic Building Construction.
- 111. Roof Construction.
- 112. Stereotomy.
- 113. History of the Development of Bridge Building—Secondary.
- 114. Water Power Development.
- 128. Practical Astronomy.
- 129. Description of Work Done.
- 130. Critical Description of Engineering Construction.

131. Translation of Technical Engineering Works from French or German.

132. Any Primary in Theoretical and Applied Mechanics or Municipal and Sanitary Engineering.

133. Any Primary in Mathematics, Mechanical Engineering, or Electrical Engineering—Secondary.

134. Indexing of Civil Engineering Periodical Literature—Secondary.

## COMMERCE

See under Economics and Materials of Commerce.

## COMPARATIVE LITERATURE AND PHILOLOGY

Professors BARTON, MOSS, DODGE, OLIVER, Assistant Professor MEYER and Dr. NEVILLE.

1. GREEK LITERATURE.—From English readings. This course must be taken as Greek 14, which see.

2. LATIN LITERATURE.—From English readings. This course must be taken as Latin 12, which see.

3. DEVELOPMENT OF THE DRAMA.—(A)—Study of the Greek and Roman drama in English. *I.*; *Tu., Th.*; 8; (2). Professors MOSS and BARTON. (B)—Study of the English, French, and German drama in English. *II.*; *Tu., Th.*; 8; (2). Professors DODGE, OLIVER and Assistant Professor MEYER.

*Required:* One year of University work.

4. GENERAL INTRODUCTION TO THE SCIENCE OF LANGUAGE.—The essential principles of the life and growth of language; outlines of the science of phonetics; classification of languages; characteristics of the various branches of the Indo-European family of languages; Indo-European phonology. *I.*; *Tu., Th.*; 6; (2). Dr. NEVILLE.

*Required:* Latin 3, Greek 4, German 1, or French 1.

6. HISTORICAL LATIN GRAMMAR.—Historical treatment of inflections and sounds of Latin in its relation to the other Indo-European languages. *II.*; *Tu., Th.*; 6; (2). Dr. NEVILLE.

*Required:* Latin 5; Philology 5.

7. HISTORY OF CLASSICAL PHILOLOGY.—*II.*; *M.*; 3; (1). Dr. NEVILLE.

*Required:* Latin 1; Greek 4.

## DAIRY HUSBANDRY

Assistant Professor FRASER, Mr. HART, Mr. HAYDEN, and Mr. HOPPER.

1. MILK.—The character and composition of milk; practice in testing with the Babcock test, the lactometer, and the different acid tests; standardizing milk and cream; proper precautions to prevent contamination. Lectures, reference reading, and laboratory practice. *I.; M., W., F.; 6, 7; (3).* Mr. HAYDEN.

2. DAIRY CATTLE.—The principal characteristics of the dairy cow, special attention being given to dairy type and its bearing on economy of production. A study of the various breeds adapted to dairy purposes, their history and characteristics. Extensive practice in judging with reference to both dairy and breed standards. *I.; first half; daily; 1, 2; (2½).* Mr. HOPPER.

7. FACTORY MANAGEMENT.—Management and care of boilers, engines, and refrigerating machines; practice in pipe fitting and soldering; management of creameries under private or co-operative ownership. Creamery sanitation and ventilation, locating, planning, building, equipping, and operating plants; creamery accounting. Designed to be taken in conjunction with course 5. *II.; second half; daily; 3; (2½).* Mr. HART.

*Required:* Dairy Husbandry 19, or 14 and 15.

8. CITY MILK SUPPLY.—Proper methods of handling and preparing milk and cream for direct consumption; preventing contamination of milk; pasteurizing, standardizing, bottling, transporting and delivering. Certified milk, value of milk as a food. Lectures, reference reading and laboratory work. *II.; Tu., Th.; 1, 2; (2).* Mr. HAYDEN.

*Required:* Dairy Husbandry 1.

10. DAIRY HUSBANDRY (MINOR).—A study of the composition and variations of milk; detection of adulterations by means of the Babcock test and lactometer; standardizing milk and cream; methods of detection of impure and unwholesome milk; where and to what extent milk becomes contaminated and methods of prevention; scoring of butter and cheese. This course is required for graduation of all students in Agriculture who do not take more extended courses in Dairy Husbandry. *I.; M.; 3, 4; W., F.; 3; (3).* Mr. HART and Mr. HAYDEN.

*Required:* Two years of University work.

11. DAIRY BACTERIOLOGY.—The relation of bacteria to the dairy industry, showing where and to what extent milk may become contaminated during the process of milking and subsequently; also how this contamination may be largely avoided by proper methods. The effect of bacteria on milk and on the rapidity with which it sours after being produced under different degrees of cleanliness and held at different temperatures. The part that bacteria play in the manufacture of butter and cheese. *II.*; *M., W., F.*; 1, 2; (3). Mr. HAYDEN.

*Required:* Dairy Husbandry 1, and Botany 12.

12. INVESTIGATION AND THESIS.—Subject arranged with instructor. (5 to 10.) Assistant Professor FRASER and Mr. HART.

14. CHEDDAR CHEESE.—Practice in ripening and setting milk; cutting, cooking, and dipping the curd; cheddaring, milling, maturing and salting curds; pressing and curing cheese. *II.*; *first half*; *Tu., Th.*; 6, 7, 8; *Sat.*; 1, 2, 3, 4; ( $2\frac{1}{2}$ ). Mr. HART.

*Required:* Dairy Husbandry 1.

15. FANCY CHEESE.—The making and curing of different varieties, such as Swiss, Edam, Gouda, brick, cottage, etc. *II.*; *second half*; *Tu., Th.*; 6, 7, 8; *Sat.*; 1, 2, 3, 4; ( $2\frac{1}{2}$ ). Mr. HART.

*Required:* Dairy Husbandry 1.

16. FEEDING AND CARE OF THE HERD.—Difference in the efficiency of individual cows; establishment of the dairy herd by selection and grading up with pure-bred sires; care and general management of the herd, together with the care and raising of calves. Fundamental principles of animal nutrition, compounding rations; construction, arrangement, and care of dairy buildings. *I.*; *second half*; *daily*; 1; ( $2\frac{1}{2}$ ). Assistant Professor FRASER and Mr. HOPPER.

17. MANAGEMENT OF PURE-BRED HERDS.—This course is to meet the requirements of those students anticipating the care or ownership of registered herds of dairy cattle. Importance of environment and feed as factors in securing and maintaining improvement in pure-bred dairy herds. Selection of sires and weeding out of females. A critical study of the important families and the performance of noted individuals in the various breeds, giving special attention to the law of heredity. *II.*; *second half*; *daily*; 3; ( $2\frac{1}{2}$ ). Assistant Professor FRASER and Mr. HOPPER.

*Required:* Dairy Husbandry 2, 16.

18. DAIRY FARM MANAGEMENT.—Soiling and pasturing dairy cows; crops adapted to the dairy farm and best methods of converting these into milk; the place and value of the silo on the dairy farm and the best methods of handling and feeding ensilage; a study of the best and most economical systems of feeding; housing and general care of the herd; arrangement and care of dairy buildings and yards from a sanitary point of view. *II.; first half; daily; 3; (2½)*. Assistant Professor FRASER.

*Required:* Dairy Husbandry 1, 2, 16, and one year of University work.

19. BUTTER MAKING.—A study of the different systems of creaming milk and a comparison of different cream separators as regards efficiency under varying conditions; pasteurization; the use of different kinds of lactic ferment, ripening cream, churning, working, packing, and scoring butter. *I.; Tu., Th.; 6, 7, 8; Sat.; 1, 2, 3, 4; II.; M., W., F.; 6, 7, 8; (5)*. Mr. HART.

*Required:* Dairy Husbandry 1.

## DRAWING, GENERAL ENGINEERING

Mr. KABLE, Mr. MATTHEWS, and Mr. WHITSITT.

1a. LETTERING.—Plain and ornamental alphabets; free-hand and mechanical lettering; titles and title pages. *Phillips and Kable's Freehand Lettering. I.; alternate days; 1, 2, 3 or 6, 7, 8; (1)*. Mr. KABLE, Mr. MATTHEWS, and Mr. WHITSITT.

1b. ELEMENTS OF DRAFTING.—Geometrical constructions; orthographic, isometric, and cabinet projections. *Tracy's Mechanical Drawing. I.; alternate days; 1, 2, 3 or 6, 7, 8; (3)*. Mr. KABLE, Mr. MATTHEWS, and Mr. WHITSITT.

*Required:* Drawing, General Engineering 1a.

1c. SKETCHING AND WORKING DRAWINGS.—Architectural sketch plans and details; bridge details; machines, machine parts, and mechanisms; working drawings; drawings finished in color and right line shading. Lectures on drafting instruments, materials; computing instruments; office methods, and reproduction processes. *Lectures and notes. I.; alternate days; 1, 2, 3 or 6, 7, 8; (1)*. Mr. KABLE, Mr. MATTHEWS, and Mr. WHITSITT.

*Required:* Drawing, General Engineering 1a, 1b.

2. DESCRIPTIVE GEOMETRY.—Problems relating to the point, line, and plane. The generation and classification of lines and surfaces:

planes tangent to surfaces of single and double curvature; intersections; developments, and revolutions. *Church's Descriptive Geometry. II.*; alternate days; 1, 2, 3 or 6, 7, 8; (5). Mr. KABLE, Mr. MATTHEWS, and Mr. WHITSITT.

*Required:* Drawing, General Engineering, 1a, 1b, 1c.

3. ADVANCED DESCRIPTIVE GEOMETRY.—For students making a specialty of mathematics. Curved lines of the higher orders; higher single curved, warped, and double curved surfaces. *Church's Descriptive Geometry*, with references to *Warren's General Problems from the Orthographic projections of Descriptive Geometry. II.*; arrange hours. Mr. KABLE.

*Required:* Drawing, General Engineering, 2 or 4.

4. DESCRIPTIVE GEOMETRY.—For students making a specialty of mathematics. This course is the same as course 2, without plates. *Church's Descriptive Geometry. II.*; alternate days; 1, 2, 3 or 6, 7, 8; (3). Mr. KABLE, Mr. MATTHEWS, and Mr. WHITSITT.

*Required:* Drawing, General Engineering, 1b.

### ECONOMICS\*

Professors KINLEY, ROBINSON, FISK, Assistant Professors HAMMOND and WESTON.

The courses in economics include: General Economics, 1, 2, 3, 12, 16, 18, 20, 21, 101, 102; Economic History, 7, 22; Finance, 4, 5, 6, 8, 9; Commerce, 26, 27, 28, 29, 30, 31, 32, 35, 103; Industry and Transportation, 10, 11, 13, 14, 25; Statistics, 23, 24, 33, 34; Sociology, 15, 17. (See also English 21 and courses in Materials of Commerce.)

Courses 7, 22 and 26 are open to freshmen, without previous requirement; courses 101-104 are open to graduate students only; the other courses, except 7, 22, 26, are open to both graduate and undergraduate students.

1. PRINCIPLES OF ECONOMICS.—A beginners' course in underlying principles of the science, with some illustrations of their applications to social and economic problems. *I.*; daily; section A, 1; section B, 4; (5). Assistant Professors HAMMOND and WESTON.

*Required:* At least 28 hours of University work.

2. PRINCIPLES OF ECONOMICS.—This course in general economics is offered primarily to students in the colleges of engineering, and agriculture.

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\*These courses are described in greater detail in the circular on Courses of Training for Business.

The course is offered each semester. In the first semester it is open *only to juniors and seniors in engineering and agriculture*. As repeated in the second semester, its character is more general and it may be taken by juniors or seniors in any of the colleges or schools of the University. *I.; Tu., Th.; 4; (2)*. Professors KINLEY and ROBINSON. *II.; A, Tu., Th.; 6; B, M., W., 8; (2)*. Assistant Professors HAMMOND and WESTON.

3. MONEY AND BANKING.—An elementary study of the history and theory of money and banking, and the monetary history of the United States. *II.; M., W., F.; 4; (3)*. Assistant Professor WESTON.

*Required:* Economics I.

4. FINANCIAL HISTORY OF THE UNITED STATES.—A survey of the fiscal systems of the American colonies followed by a study of national finances from the beginning of the American Revolution to the present time. *I.; M., W., F.; 2; (3)*. Assistant Professor HAMMOND.

*Required:* Economics I.

5. PUBLIC FINANCE.—An elementary study of the principles controlling public expenditures and revenues. Special attention is paid to taxation and public debts. *II.; Tu., Th.; 4; (2)*. Assistant Professor HAMMOND.

*Required:* Economics I.

6. TAXATION.—A study of the history of state and local taxation in the United States, and of the existing tax systems of the various American commonwealths. Especial attention is given to taxation in Illinois. Although courses 4 and 6 are intended primarily for undergraduates, they may be advantageously taken by graduates, and graduate students who enter these courses will be given an opportunity to pursue research work along these lines under the direction of the instructor. *II.; M., W., F.; 2; (3)*. Assistant Professor HAMMOND.

*Required:* Economics 5.

7. ENGLISH ECONOMIC HISTORY.—Special attention is directed to the evolution of modern industrial institutions. *I.; Tu., Th.; 3; (2)*. Assistant Professor WESTON.

8. THE MONEY MARKET.—An advanced course dealing with rates of exchange, functions of bill broker and banker, causes of fluctuations in rates of discount, the concentration of financial deal-

ings at such centers as New York and London, international payments and the determination of rates of foreign exchange. *II.; Tu., Th.; 3; (2)*. Assistant Professor WESTON.

*Required:* Economics 3 and 9.

9. BANKING.—A course in the study of practical banking, with special reference to the United States, England, Germany, France and the Orient. *I.; Tu., Th.; 7; (2)*. Assistant Professor WESTON.

*Required:* Economics 3.

10. CORPORATION MANAGEMENT AND FINANCE.—The growth of corporations; their organization and securities, position and relations of stockholders and directors, analysis of reports, stock speculation, relation of industrial corporations to international competition, receiverships and reorganizations, social and political effects. *I.; M., W., F.; 3; (3)*. Professor ROBINSON.

*Required:* Economics 1, or 2 and 7 or 22.

11. INDUSTRIAL CONSOLIDATIONS.—The development of industrial consolidations, their causes and forms; the promotion, financiering, incorporation and capitalization of corporate consolidations; monopoly prices and monopoly methods; the ability of trusts to affect prices, wages, interest and profits; and the proposed plans for controlling trusts, such as publicity, taxation of profits, and public ownership. *II.; M., W., F.; 3; (3)*. Professor ROBINSON.

*Required:* Economics 10.

12. THE LABOR PROBLEM.—The labor movement and its social significance. The progress of the laboring classes, strikes, arbitration, labor organizations, and similar topics, which are studied, show the general character of the course. *I.; W., F.; 4; (3)*. Professor KINLEY.

*Required:* Economics 1, or 2 and 7.

13. RAILWAY MANAGEMENT.—This course considers from the administrative standpoint railways as factors in the social and industrial development of the United States and treats of the following topics:—(1) Historical: conditions of commerce and industry previous to the advent of the railways; primitive methods of transportation, etc.; (2) Geographical: the economic location of railways, etc.; (3) Organization: charter and franchises; capital stock; directors and stockholders; departments; the distribution of authority and responsibility; (4) Traffic management; (5) Financial: basis of capitalization; use of stocks and bonds: stock watering; distri-



bution of earnings; reports and their interpretation, etc.; (6) Legal: rights and duties of railways; their status under the common and statute law; relation to leased lines; to employes; to patrons; taxation; public control through commissions. *I.; M., W., F.; 4; (3)*. Professor ROBINSON.

*Required:* Economics 1, or 2 and either 7 or 22. From junior and senior engineers economics 2, only, will be required.

14. RAILWAY SYSTEMS.—This course is a continuation of course 13. *II.; M., W., F.; 4; (3)*. Professor ROBINSON.

*Required:* Economics 13.

15. CHARITIES AND CORRECTION.—This course deals with the causes of pauperism and crime, with the study of institutions for the care of dependents, and similar topics. *I.; Tu., Th.; 2; (2)*. Assistant Professor HAMMOND.

*Required:* At least 28 hours of University credit. [Not given in 1904-05.]

16. ECONOMIC PROBLEMS.—Section A, consisting of engineers, takes up the study of railway problems, taxation of corporations, and the labor question. Section B, composed of household science students, studies such subjects as expenditure and consumption, household budgets, certain aspects of the labor question and the elements of accounting. Section C, composed of students from the College of Agriculture, takes up special topics relating to agriculture. *II.; Tu., Th.; (2)*. Section A, 4. Professor ROBINSON; Section B, 4. Professor KINLEY; Section C, M., W.; 8; Assistant Professor WESTON.

*Required:* Economics 1, or 2 and 7.

17. SOCIOLOGY.—This course deals with the principles underlying social organization and with the nature and development of social institutions. Special attention is devoted to the study of the family, the state and to the subject of race assimilation in the United States. The latter part of the course is devoted to problems of social disintegration, particularly crime and pauperism. *II.; M., W., F.; 1; (3)*. Assistant Professor HAMMOND.

*Required:* At least 28 hours of University credit.

18. ECONOMIC SEMINARY.—For investigation and for the study of current economic literature. *I., II.; arrange time (4-8 for the year)*. Professor KINLEY and other instructors in the department.

20. HISTORY OF ECONOMIC THOUGHT.—The history of the de-

velopment of economic theory since the sixteenth century. *I., II.; 7; (2)*. Professor KINLEY.

*Required:* Ten hours in economics.

21. SOCIALISM AND SOCIAL REFORM.—*II.; M., W., F.; 7; (3)*. Assistant Professor WESTON.

*Required:* Economics 1, or 2 and 7.

22. THE ECONOMIC HISTORY OF THE UNITED STATES.—An inquiry into the trend of our development and into the physical, economic, and political forces which have directed and controlled it. Attention is given to the history of some specific great industries. *II.; Tu., Th.; 3; (2)*. Professor ROBINSON.

23. STATISTICS.—A course in descriptive statistics. The course may be taken by itself, but is better taken with the first half of course 24. *II.; F.; 7; (1)*. Assistant Professor HAMMOND.

*Required:* Economics 1 or 2.

24. STATISTICS.—Students of economics should take this course and 23 together. Those who do not wish the mathematical theory of probability may drop out of the class when that part of the subject is reached. For them the mathematical requirement for entrance is not enforced, and courses 23 and 24 count for four hours' credit. All who take the course must take both parts of it, as described under mathematics 26, which see.

25. PUBLIC CONTROL OF TRADE AND INDUSTRY.—An economic and financial study of the practical results of the public regulation of private business enterprises, and the public control, ownership, and operation of public service corporations such as street railways, water works, gas and electric light plants, docks, and markets. *Tu., Th.; 6; (2)*. Professor ROBINSON. Not given in 1904-5.

*Required:* Economics 1, or 2 and 7.

26. COMMERCIAL GEOGRAPHY.—A brief study of the various natural and artificial conditions which affect commercial and industrial development, followed by a somewhat detailed consideration of the more important products and industries of the different countries, with special reference to the domestic and foreign commerce of the United States. *I., II.; Tu., Th.; section A, 7; section B, 8; (2)*. Professor FISK.

This course should be taken with physiography.

27. HISTORY OF COMMERCE.—A general survey of ancient, mediæval and modern commerce, with special stress on the commercial policy of Europe during the last century. This may be

advantageously taken in connection with economics 30. Both courses are given during 1904-05 and every other year thereafter, alternating with economics 28 and 29. *I.; M., W., F.; 7; (3)*. Professor FISK.

*Required:* Economics 1, 7 and 26.

28. DOMESTIC COMMERCE AND COMMERCIAL POLITICS.—This course on internal trade includes a comparative study of the various forms of commercial organization, such as general wholesale and retail trade, department, coöperative, and company stores, peddling, huckstering and hawking, booths, auctions, commercial agents, including commercial travelers, and the coupon system. Other subjects considered are markets and fairs, stock and produce exchanges, trade companies, commercial and technical schools, etc. *I.; M., W., F.; 7; (3)*. Professor FISK.

*Required:* Same as Economics 27. (Not given in 1904-05.)

29. FOREIGN COMMERCE AND COMMERCIAL POLITICS.—Continuation of course 28, but may be taken separately. A study of the various commercial systems (mercantile, free trade, and protective); kinds of tariffs; commercial treaties, including premiums, reciprocity and most favored nations relations; commercial statistics and balances; institutions for furthering export trade (commercial museums and bureaus of information, sample houses, consular reports, etc.). *II.; M., W., F.; 7; (3)*. Professor FISK.

*Required:* Same as Economics 27. (Not given in 1904-05.)

30. HISTORY OF THE COMMERCIAL POLICY OF THE UNITED STATES.—This course includes an historical study of all those measures, such as tariff legislation, commercial treaties, laws regulating coastwise navigation, tonnage duties, reciprocity arrangements, bounties, subsidies, consular matters, etc., which have an important bearing on the commercial side of the foreign relations of the United States. *II.; M., W., F.; 7; (3)*. Professor FISK.

*Required:* Economics 1, 7, 22, 26.

31. HISTORY OF THE COMMERCIAL RELATIONS OF THE UNITED STATES.—This comprises a study of the general trade relations of the United States with foreign countries, as well as a more detailed consideration of our commercial relations with certain countries. For 1904-05 the subject for special study will be our economic relations with the countries of the far East (China, Japan, and Russia), or of Great Britain, according to the desires of the members of the

class. It is desirable, though not required, that this course be taken in connection with 35. *I., II.; M., W.; 8; (2)*. Professor FISK.

*Required:* Economics 1, 7 and 26.

32. DOMESTIC AND FOREIGN MARKETS OF THE UNITED STATES.—One hour a week is devoted to a study of the distribution and domestic marketing of American products, especially farm products, while the second hour is given to a study of foreign markets for American exports. The aim in the latter will be to consider how we may most advantageously develop our present foreign markets and open up new fields for American products. It is desirable, though not required, that this course be taken with 35. *I., II.; W., F.; 8; (2)*. Professor FISK.

*Required:* Economics 27 and 30 or 28 and 29. (Not given in 1904-05.)

33. ECONOMICS OF INSURANCE.—The historical development of insurance, and an extended discussion of its economic aspects. The various forms of insurance,—fire, accident, employment and life,—from the standpoint of internal organization and from that of social service. Rates, policies, investments, corporate management, accounting, public supervision, and insurance law. *I.; Tu., Th.; 3; (2)*. Professor ROBINSON.

*Required:* Economics 10, 24.

34. CORPORATION ACCOUNTING.—The general principles of accounting and auditing in modern business. The reports of railway, banking and industrial corporations are analyzed. The work is supplemented with a series of lectures by practical accountants. *II.; M., W.; 2; (2)*. Professor ROBINSON.

*Required:* Economics 10.

35. CONSULAR AND DIPLOMATIC SERVICE.—The basis of this course is the consular and diplomatic regulations of the United States. Some attention, however, is paid to the foreign service of other important countries. It is desirable, though not required, that this course be taken with 31 or 32. *I., II.; F.; 8; (1)*. Professor FISK.

*Required:* Economics 1, 7 and 26.

40. BIBLIOGRAPHY OF HISTORY AND THE SOCIAL SCIENCES.—A study of the literature of the subjects rather than of the subjects themselves. The history of thought in the subjects, as a part of

the progress of culture, is traced in a brief way. Works representative of various periods and phases of the subject are assembled, and the masterpieces of each period are discussed in some detail. Each student is required to prepare a list of books on an assigned topic suited to the conditions of a selected community. *I.; arrange time; (1)*. Various instructors.

#### COURSES OPEN TO GRADUATES ONLY.

101. RECENT ECONOMIC THEORY.—Different topics are taken up and discussed from year to year, as time allows. For the year 1904-05 the subject of study is Theories of Wages and Profits. *I., II.; arrange time; (2 to 4)*. Professor KINLEY.

102. HISTORICAL AND COMPARATIVE FINANCE.—This course, which is devoted to original investigation by the student and to reports and discussion in class, supplemented with lectures by the instructor, will be conducted each year along one of the following lines: (1) a comparison of financial theories concerning public expenditure, the principle of justice in taxation, the incidence of taxes and the relation of taxation to social reform; (2) a comparison of the financial system of the United States with those of foreign countries; (3) a comparison of the taxing systems of the American commonwealths. For 1904-05 the last-named subject has been selected. *I., II.; arrange time; (2)*. Assistant Professor HAMMOND.

103. SEMINARY IN RAILWAY ADMINISTRATION.—Advanced students in this subject make a detailed study of one of the branches of railway administration. *I., II.; arrange time; (2)*. Professor ROBINSON.

104. SEMINARY IN COMMERCE.—A study of present international commercial relations, with special reference to the trade conditions of the United States and the extension of her trade to foreign markets. *I., II.; arrange time; (2)*. Professor FISK.

#### EDUCATION

Professor DEXTER and Assistant Professors COLVIN\* and HOLLISTER.

I. PRINCIPLES OF EDUCATION.—The basis for a scientific theory of education, critically considered, from the standpoint of the individual in his relation to the mass. The more general problems of

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\* On leave 1903-4.

genetic psychology are studied, as well as those essential to the theory and art of teaching. The problems of school education. The making of a course of study. Method in teaching. The recitation. Examinations. Grading and promotion. The various branches, considered as school subjects. *I.; daily; 2; (5)*. Professor DEXTER.

*Required:* Two years of University work.

2. HISTORY OF EDUCATION.—The development of educational theory and practice in their relation to the history of civilization. The educational problems of the earliest culture nations. The early Christian schools. Significance of scholasticism. The growth of the universities. The reformation and its results. The lives and influence of the great educators. *II.; daily; 2; (5)*. Professor DEXTER.

*Required:* Two years of University work.

3. GENERAL METHOD.—Application of the principles of education to the art of teaching. *I.; M., W., F.; 3; (3)*. Mr.....

*Required:* Education 1.

4. CONTEMPORARY EDUCATIONAL CONDITIONS AND MOVEMENTS IN THE UNITED STATES.—The educational tendencies of to-day. Besides the broader meaning of the whole movement, the school systems of our larger cities and towns are carefully studied. *I.; Tu., Th.; 4; (2)*. Professor DEXTER.

*Required:* Education 1 or 2.

5. A COMPARATIVE STUDY OF THE SECONDARY SCHOOLS OF FRANCE, GERMANY, ENGLAND, AND AMERICA.—The French Lycées, the German Gymnasia, the English Board, Public, and Church Schools, and the American Academies and High Schools. *II.; Tu., Th.; 4; (2)*. Professor DEXTER.

*Required:* Education 1 or 2.

6. HIGH SCHOOL ORGANIZATION AND MANAGEMENT.—A discussion of the essential elements of a good high school, together with a consideration of the conditions existing in Illinois; proposed solutions of the many problems of secondary education; desired lines of progress; building up of an accredited high school; equipment; program making; courses of study: electives; discipline. *I.; M., W., F.; 7; (3)*. Mr.....

*Required:* Education 1.

7. SPECIAL METHODS IN SCIENCE AND MATHEMATICS.—Position of science in the curriculum; discussion of general methods in science; special methods with reference to botany; zoölogy, physics,

chemistry, and other sciences, in so far as time will allow; laboratory equipment; purchasing of apparatus; selection and use of material; use of laboratory manuals; text-books; discussion and illustration of methods in algebra and geometry. *I.*; *Tu., Th.*; 3; (2).  
Mr. ....

*Required:* Education I.

8. SPECIAL METHODS IN LANGUAGE AND HISTORY.—The application of the general principles of method to the teaching of language and history; special methods in English composition and rhetoric and the English classics required for admission to the University; methods in language teaching, especially Latin and German; content and method in history teaching. *II.*; *Tu., Th.*; 7; (2). Assistant Professor COLVIN.

*Required:* Education I and three years of University work.

9. PSYCHOLOGY APPLIED TO THE ART OF TEACHING.—A brief course in genetic psychology, together with a critical study of the mental processes of sense perception, the formation of concepts, attention, suggestion, and imitation in their relation to the teaching process. *II.*; *M., W.*; 4; (2). Professor DEXTER.

*Required:* Two years of University work.

10. SEMINARY IN EDUCATION.—The subject for 1903-1904 is *School Supervision*. The problems of the modern city superintendent from both the educational and business standpoints will be considered. Special attention is given to the problems of school architecture and sanitation. Discussions, reports, and lectures by those actively engaged in the work of superintendency. *I., II.*; *arrange time*; (1). Professor DEXTER.

Special courses for teachers are offered in other departments of the University. Students electing these courses are expected to have had Education I or its equivalent. For description, see English 15, German 13, Latin 9, Rhetoric 8, Zoölogy 9.

#### COURSES FOR GRADUATES

Advanced work is offered in the history and philosophy of education. Experimental and statistical problems in education and child study are also directed.

## ELECTRICAL ENGINEERING

Professor MORGAN BROOKS, Assistant Professor WILLIAMS, and Mr. BRYANT.

1. ELECTRICAL ENGINEERING.—Lectures and recitations accompanying Elec. Eng'g 21, laboratory practice; for students in other courses of engineering. Principles of electrical machinery, selection, installation, and operation; distribution of power, motor applications. *I.*; section *A*, *Tu.*, *Th.*; *1*; section *B*, *W.*, *F.*; *2*; (*1½*). Mr. BRYANT.

*Required:* Phys. 1 and 3; Math. 9.

4. TELEGRAPHY AND TELEPHONY.—Fundamental principles of electric signaling with illustrations from modern telegraphic methods. Wireless telegraphy. Theory of the telephone; commercial instruments; switching methods. Line construction. *I.*; *Tu.*, *Th.*; *1*; (*2*). Professor BROOKS.

*Required:* Phys. 4, Elec. Eng'g 16.

5. ALTERNATING CURRENTS.—A mathematical and graphical treatment of the principles of periodic currents, with theory of the transformer. Application of theory in generators, motors, and transformers. *I.*; *M.*, *W.*, *F.*; *1*; (*3*). Professor BROOKS.

*Required:* Elec. Eng'g 16, Phys. 4.

9. LIGHTING.—For architects. Electric lamps and other illuminants, and their effective use. Interior wiring. Methods of electrical distribution. *II.*; *W.*; *6*; (*1*). Professor BROOKS.

11. POWER PLANTS.—Principles governing location of lighting plants, and of water-power plants. Economical transmission distance. Selection, arrangement, and installation of generating units. Management and testing of complete plants. *II.*; *F.*; *1*; (*1*). Assistant Professor WILLIAMS.

*Required:* Elec. Eng'g 5 and 15.

12. ELECTRO-CHEMISTRY.—Theory of electrolysis and of heat in chemistry. Applications upon an engineering scale to manufacturing various metals and other products. Electroplating. The electric furnace. *I.*; *W.*, *F.*; *3*; (*2*). Professor BROOKS.

*Required:* Chem. 1 and Elec. Eng'g 16.

13. SEMINARY.—A weekly meeting for the discussion of topics from current periodicals, of original scientific papers, including advance copies of transactions of American Institute of Electrical



Engineers. *I.*; *S.*; *I.*, *2*; *II.*; *Th.*; *2*, *3*; (*1*). *I.* Assistant Professor WILLIAMS; *II.* Professor BROOKS.

*Required:* Elec. Eng'g 16.

14. ADVANCED ALTERNATING CURRENTS.—Development and application of the Steinmetz symbolic method. Peculiarities of single and poly-phase machinery. *II.*; *Tu.*, *Th.*; *1*; (*2*). Professor BROOKS.

*Required:* Elec. Eng'g 5.

15. ELECTRIC DISTRIBUTION.—Principles of economic arrangement of electric circuits. Line construction, overhead and underground. Interior wiring. Effective lighting. *I.*; *M.*, *W.*, *F.*; *4*; (*3*). Assistant Professor WILLIAMS.

*Required:* Elec. Eng'g 16.

16. DYNAMO-ELECTRIC MACHINERY.—Theory of the magnetic circuit and of flux. Fundamental principles of dynamos and motors, concluding by the application of these principles to alternating current machinery. *I.*; *section E*, *M.*, *W.*, *F.*; *1*; *section F*, *M.*, *W.*; *1*; *F.*; *3*; (*3*), Assistant Professor WILLIAMS. *II.*; *section E*, *M.*, *W.*, *F.*; *4*; *section F*, *M.*; *4*; *W.*, *F.*; *3*; (*3*), Professor BROOKS and Assistant Professor WILLIAMS.

*Required:* Physics 1 and 3.

17. TRACTION.—Theory of grades, curves, and speeds as affecting train resistance. Examples from dynamometer-car practice. Application of electric motors to the problem of electric traction, with illustrations from electric railways. *II.*; *M.*, *W.*; *1*; (*2*). Assistant Professor WILLIAMS and Mr. SNODGRASS.

*Required:* Theo. and Applied Mech. 1, 2 and 3, and Elec. Eng'g 16 and 5.

21. ELECTRICAL ENGINEERING LABORATORY.—For students in other courses of engineering. Illustrations of principles of dynamo machinery. Operation and care of dynamos, motors, and transformers. *I.*; *6*, *7*, *8*; *section A1*, *Th.*; *section A2*, *F.*; *section B1*, *M.*; *section B2*, *Tu.*; *section C*, *W.*; (*1½*). Assistant Professor WILLIAMS and Mr. BRYANT.

*Required:* Elec. Eng'g 1.

22. ELECTRICAL ENGINEERING LABORATORY.—Experimental study of direct current dynamos and motors; use of measuring instruments; operation of electric machinery; complete tests similar to those made by dynamo manufacturers. *II.*; *6*, *7*, *8*; *section E1*.

*Th.*; section *E2*, *F.*; section *F1*, *Tu.*; section *F2*, *W.*; ( $1\frac{1}{2}$ ). Assistant Professor WILLIAMS and Mr. BRYANT.

*Required:* Elec. Eng'g 16.

23. ELECTRICAL ENGINEERING LABORATORY.—Study of alternating current instruments, dynamos, motors, and transformers; regulation, efficiency, temperature and insulation tests. *I.*; section *E*, *W.*; 6, 7, 8; section *F*, *M.*; 6, 7, 8; (1). Assistant Professor WILLIAMS and Mr. BRYANT.

*Required:* Elec. Eng'g 5 and 22.

24. ELECTRICAL ENGINEERING LABORATORY.—Advanced direct and alternating current testing; problems in transmission line losses; polyphase operation. *II.*; section *E*, *M.*; 6, 7, 8; *W.*; 2, 3, 4; section *F*, *M.*; 2, 3, 4; *F.*; 2, 3, 4; (2). Assistant Professor WILLIAMS and Mr. BRYANT.

*Required:* Elec. Eng'g 22 and 23.

27. ELECTRICAL ENGINEERING LABORATORY.—Operation and testing of telegraph and telephone instruments and lines; photometry. *I.*; 2, 3; section *E*, *Th.*; section *F*, *Tu.*; (1). Mr. BRYANT.

*Required:* Elec. Eng'g 4 and 16.

32. ELECTRICAL DESIGN.—Calculation and design of electromagnets and of dynamos, direct and alternating, and of transformers. *I.*; section *E*, *M.*; 6, 7, 8; and *Tu.*, 2, 3; section *F*, *W.*; 6, 7, 8; and *Th.*; 2, 3; (2). Professor BROOKS.

*Required:* Elec. Eng'g 16 and Phys. 4.

33. ELECTRICAL DESIGN.—Drawings and specifications for a complete plant, or design for a large switchboard and distribution system. *II.*; section *E*, *F.*; 2, 3, 4; section *F*, *M.*; 6, 7, 8; (1). Assistant Professor WILLIAMS.

*Required:* Elec. Eng'g 5 and 15.

### COURSES FOR GRADUATES

#### Primary

101. Theory of Alternating Currents.
102. Dynamo-Electric Machinery.
103. Alternating Current Machinery.
104. Electrical Transmission of Power.
105. Electric Light and Power Plants.
106. Electro-Metallurgy.
107. Polyphase Testing.
108. Electrical Engineering Research.
109. Electrical Design.

## Secondary

- 111. Theory of Equations.
- 112. Theory of Determinants.
- 113. Least Squares.
- 114. Differential Equations.
- 115. Calculus of Variations.
- 116. Spherical Harmonics.
- 117. Potential Function.
- 118. Advanced Physical Measurements.
- 119. Mathematical Physics.
- 120. Mathematical Theory of Electricity and Magnetism.
- 121. Physical Chemistry.
- 122. Metallurgical Chemistry.
- 123. Electro-Chemistry.

## ENGLISH LANGUAGE AND LITERATURE

Professor DODGE, Associate Professor JAYNE, Assistant Professor  
BALDWIN, Mr. PAUL.

1. SELECT PERIODS OF ENGLISH LITERATURE.—*I.*; *section A, 1*; *section B, 2*; *section C, 3*; *section D, 6*; *section E, 8*; (4). Assistant Professor BALDWIN, Mr. PAUL, Mr. SCOTT, and Miss KYLE.

3. NINETEENTH CENTURY POETRY.—*I., II.*; *M., W., F.*; 3; (3). Associate Professor JAYNE. (The second semester may not be taken by itself.)

*Required:* English 1.

4. PROSE WRITERS OF THE SIXTEENTH AND SEVENTEENTH CENTURIES.—*II.*; *section A, M., Tu., W., Th.*; 2; *section B, Tu., W., Th., F.*; 4; (4). Assistant Professor BALDWIN.

*Required:* - English 1.

4a. NON-DRAMATIC POETRY OF THE SIXTEENTH AND SEVENTEENTH CENTURIES.—*I., II.*; *Tu., Th.*; 3; (2). Assistant Professor BALDWIN. (Not given in 1904-1905.)

5 SHAKESPEARE AND HISTORY OF THE DRAMA.—Primarily for graduates. *I., II.*; *M., W., F.*; 2; (3). Professor DODGE.

*Required:* English 1 and either 3, 4 or 23. (The second semester may be taken without the first.)

6. HISTORY OF ENGLISH CRITICISM.—Primarily for graduates. *I., II.*; *Tu., Th.*; 2; (2). Mr. PAUL.

*Required:* English 1, 3 and 4.

7. ENGLISH FICTION.—Open only to senior and graduate students. *I., II.; Tu. and Th.; 3; (2)*. Associate Professor JAYNE.

8. OLD ENGLISH (ANGLO-SAXON) GRAMMAR AND PROSE.—*I., II.; M., W., F.; 4; (3)*. Professor DODGE.

14. THE OLD ENGLISH CHRONICLE.—Special course for students of politics, economics, and history. As an introduction to the course, Old English Grammar is studied, so far as is necessary for a proper understanding of early phraseology. Primarily for graduates, but open to undergraduates having sufficient preparation. *I.; Tu., Th.; 3; (2)*. Professor DODGE.

*Required:* One year of history, economics, sociology, or English Literature.

15. SEMINARY: METHODS OF ENGLISH TEACHING.—Open to senior and graduate students. *I., II.; W.; 8; (1)*. Professor DODGE, Associate Professor JAYNE, Assistant Professor BALDWIN, and Mr. PAUL.

(The second semester may be taken without the first.)

16. HISTORY OF AMERICAN LITERATURE.—*I.; M., W., F.; section A, 2; section B, 6; (3)*. Associate Professor JAYNE and Mr. PAUL.

17. HISTORY OF THE ENGLISH LANGUAGE.—Elementary course. *I., II.; Tu., Th.; 4; (2)*. Professor DODGE.

19. THE LITERARY STUDY OF THE BIBLE.—*I., II.; M., W., F.; 3; (3)*. Assistant Professor BALDWIN.

20. EIGHTEENTH CENTURY POETRY.—*II.; M., W., F.; 1; (3)*. Mr. PAUL.

*Required:* English I or equivalent.

21. SOCIAL IDEALS IN ENGLISH LITERATURE OF THE NINETEENTH CENTURY.—*II.; M., W., F.; 5; (3)*. Associate Professor JAYNE.

*Required:* Eight hours of English Literature.

23. ELEMENTARY COURSE IN SHAKESPEARE.—Introductory to English 5. *II.; M., W., F.; section A, 4; section B, 6; section C, 7; (3)*. Mr. PAUL and Miss KYLE.

*Required:* English I. (Not given in 1904-1905.)

24. BROWNING, RAPID CRITICAL READING.—*I.; M., W., F.; 4; (3)*. Miss KYLE.

25. CHAUCER, CRITICAL READING OF THE PRINCIPAL POEMS.—*I.; Tu., Th.; 2; (2)*. Professor DODGE.

26. ENGLISH BALLADS.—*II.; Tu., Th.; 2; (2)*. Professor DODGE.

## COURSES FOR GRADUATES

101. RESEARCH WORK IN ELIZABETHAN LITERATURE.—Professor DODGE and Assistant Professor BALDWIN.

102. EIGHTEENTH CENTURY WRITERS.—Special investigations. Professor DODGE, Associate Professor JAYNE, and Mr. PAUL.

103. NINETEENTH CENTURY LITERATURE.—Investigation of special problems. Associate Professor JAYNE and Mr. PAUL.

*See also Comparative Literature and Philology.*

## ENTOMOLOGY

Professor FORBES, Dr. FOLSOM.

1. ELEMENTARY ENTOMOLOGY.—This course, open to all matriculated students, is complete in itself, but leads to the courses in general entomology. (Entomology 2 and 3). The field and laboratory work is strictly entomological, but the lectures are largely upon general biology, with entomological illustrations. The subject is taught in part with a view to giving the prospective teacher of zoölogy command of entomological material for illustrative purposes. *I., II.; Tu., Th.; 6, 7; (2).* Dr. FOLSOM.

2. GENERAL ENTOMOLOGY.—This course and Entomology 3 form a year's connected major work in entomology, covering substantially the whole field. The present course is devoted mainly to field entomology in the fall and later to the morphological and physiological aspects of the subject. Beginning with the collection and preservation of specimens and the making of field observations, it is continued by laboratory studies of typical insects, made with special reference to the recognition of adaptive structures, and experimental work intended to determine their exact utilities. *I.; 3, 4; (5).* Dr. FOLSOM.

*Required:* Zoölogy 1. Entomology 1 or 4.

3. GENERAL ENTOMOLOGY.—To be taken either with or without the preceding course. The classification and determination of insects, the study of life histories in the insectary and by field observation, and the collection of information with respect to the oecological relations of insects, are the principal objects of this course. *II.; 3, 4; (5).* Dr. FOLSOM.

*Required:* Zoölogy 1 or Entomology 1.

4. INTRODUCTION TO ECONOMIC ENTOMOLOGY.—Intended especially for students in the College of Agriculture. A lecture, field, and laboratory course acquainting the student with the general principles and essential elements of economic entomology. This course may be followed by one or more special courses corresponding to the subdivisions of the departments of agriculture and horticulture, and to be taught in connection with them. *I.; Tu., Th.; 1, 2; (2)*. Professor FORBES and Dr. FOLSOM.

5. ADVANCED ENTOMOLOGY.—Under this head students desiring advanced work in entomology, especially as a preparation for thesis work in this subject, will be individually provided for on consultation with the entomological instructors. The course may be made to cover one or two semesters and to earn a three-hour or a five-hour credit in each. At least a three-hour course for one semester will be required as a preparation for entomological thesis work. *I., II.; arrange time; (3 to 5 each semester)*. Professor FORBES or Dr. FOLSOM.

*Required:* Entomology 2, 3, or 4.

6. THESIS INVESTIGATION.—Students specializing in entomology will select a thesis subject, preferably during the junior year. They will be expected to give three hours a day to investigation upon it, under the supervision of an instructor, during their senior year. *I., II.; arrange time; (5)*. Professor FORBES and Dr. FOLSOM.

*Required:* At least a three-hour course in Entomology 5.

7. SYSTEMATIC ENTOMOLOGY.—This course, while primarily entomological, is designed to be of general use to students of biology. The lectures include a historical and critical survey of the systems of classification; a discussion of the aims and methods of classification; the nature of species, genera, and other groups, and the rules of nomenclature; the preparation of taxonomic articles, involving the study of bibliography, synonymy, analytical keys, etc. These subjects receive practical treatment in the laboratory, and to qualified students the unworked material of the State Laboratory of Natural History is available for study. *I., II.; arrange time; (3 each semester)*. Dr. FOLSOM.

*Required:* Entomology 3 or Zoölogy 1 or 2.

#### COURSES FOR GRADUATES

Entomology 2, 3, 5, 6, and 7 may be taken as graduate courses.

## FRENCH

Professor OLIVER, Dr. JONES, Mr. HAMILTON.

1. ELEMENTARY COURSE.—Grammatical study. Drill in pronunciation. Reading of simpler modern authors, with exercises in composition and conversation. *I., II.; section A, 1; section B, 2; section C, 3; section D, 4; section E, 6; section F, 7; (4).* Professor OLIVER, Dr. JONES, and Mr. HAMILTON.

2. MODERN PROSE, POETRY AND DRAMA.—Rapid reading of representative modern authors. Advanced syntax and composition. Conversation and reports on collateral reading. Outlines of French literature. *I., II.; section A, 3; section B, 6; (4).* Professor OLIVER and Mr. HAMILTON.

*Required:* French 1.

3. ADVANCED PROSE, COMPOSITION AND CONVERSATION.—This course may be taken alone, or more profitably with any course higher than French 2. It is especially designed for students in the courses in business training and for those intending to teach French. *I., II.; Tu., Th.; 2; (2).* Professor OLIVER.

*Required:* For students in the courses in business training French 1; for other students French 2.

4. NINETEENTH CENTURY.—A general course on the romantic and realistic drama and novel. Lyric poetry of the period will also be studied. Modern tendencies are discussed. Lectures, themes and collateral reading. *I., II.; M., W., F.; 2; (3).* Mr. HAMILTON.

*Required:* French 2. (Not given in 1904-1905.)

5. THE ROMANTIC SCHOOL.—Rise, development and decline of Romanticism in French literature, with readings from all representative authors. During the latter part of the year the characteristics of realism are discussed and a few productions of the realistic school are read. *I., II.; M., W., F.; 2; (3).* Mr. HAMILTON.

*Required:* French 2.

7. MOLIÈRE.—Study of the life and times of Molière, with reading of the greater comedies. *I.; Tu., Th.; 2; (2).* Mr. HAMILTON.

*Required:* French 2. Not open to students who have had French 10.

8. TRAGEDY OF THE CLASSIC SCHOOL.—Rise, development and decline of Classic Tragedy as seen in the works of Corneille, Racine and Voltaire. *II.; Tu., Th.; 2; (2).* Mr. HAMILTON.

*Required:* French 2. Not open to students who have had French 10.

9. NON-DRAMATIC LITERATURE OF THE SEVENTEENTH CENTURY.—Lectures on the culture and society of France in the seventeenth century as expressed in literature not dramatic. The great moralists, preachers and philosophers. Memoirs and Letters. The Art Poétique and the Satires of Boileau. The fables of La Fontaine. *I., II.; M., W., F.; 4; (3).* Professor OLIVER.

*Required:* At least twenty hours of French.

10. THE DRAMA OF THE SEVENTEENTH CENTURY.—Lectures on the rise and development of French Classic Drama, with especial reference to the culture of France during this period. Interpretation of the greater masterpieces of Corneille, Molière, Racine and the secondary dramatists. Collateral reading and themes. *I., II.; M., W., F.; 4; (3).* Professor OLIVER.

*Required:* At least twenty hours of French, no part of which may be credit earned in French 7 or 8. (Not given in 1904-05.)

11. THE LYRIC POETRY OF FRANCE.—Rise and growth of lyric poetry in France. The chief emphasis falls upon Victor Hugo, although the poets previous to Hugo and also his contemporaries receive attention. The principles of French versification are studied and illustrated, particularly in examples of Victor Hugo's poems. *I., II.; Tu., Th.; 3; (2).* Dr. JONES.

*Required:* Twenty hours of French.

12. REALISTIC FICTION.—This course has Balzac as its central theme, and studies in detail the development of French realistic fiction. *I., II.; Tu., Th.; 3; (2).* Dr. JONES.

*Required:* Twenty hours of French. (Not given in 1904-05.)

13. NON-DRAMATIC LITERATURE OF THE EIGHTEENTH CENTURY.—Lectures on the society and culture of the eighteenth century in France. Break-up of the ideals of Classicism. Growth of the revolutionary spirit. First movements toward Romanticism. Montesquieu, Voltaire and the Encyclopedists, Rousseau, Diderot, Le Sage and the writers of the Revolution. *I., II.; M., W., F.; 4; (3).* Professor OLIVER.

*Required:* French 2. (Not given in 1904-05.)

14. THE DRAMA OF THE EIGHTEENTH AND NINETEENTH CENTURIES.—Lectures; The decadence of classic drama: Voltaire. Crébillon. Rise and growth of the Drame Bourgeois, the Romantic



drama and the Realistic drama. Modern tendencies. The chief works of Beaumarchais, Marivaux, Hugo, Musset, Scribe, Dumas père, Augier, Dumas fils, Sardou, Coppée, Becque, Hervieu, Rostand, Brieux. Collateral reading with essays. *I., II.; M., W., F.; 4; (3).* Professor OLIVER.

*Required:* French 2. (Not given in 1904-05.)

*For courses in Comparative Drama and in the Science of Language see Comparative Literature and Philology.*

#### COURSES FOR GRADUATES

Graduate students may pursue special courses under the direction of the head of the department. These courses will treat of the language and literature of the sixteenth century, of the history of Old French literature, and of the Historical Grammar of French and the other Romance Languages. In case the number of students be sufficient, a Seminar Course will be formed to meet their needs.

Students intending to qualify as teachers of French should take courses in the Historical Grammar of the French language.

#### GEOLOGY

Professor ROLFE, Mr. FOX, and Mr. MATSON.

Students expecting to specialize in geology should take courses number 5, 1, 2, 6, 7, 8, 9, 4, in the order named, except that 4 should run parallel with 8 and 9.

I. DYNAMIC AND HISTORIC GEOLOGY.—Dynamic and historic geology. Laboratory exercises in petrography and paleontology.

a. Dynamic Geology. The forces now at work upon and within the earth's crust, modeling its reliefs, producing changes in the structure and composition of its rock masses and making deposits of minerals and ores. A series of localities is studied in which great surface changes have recently taken place, with a view to ascertaining the character of the forces producing such changes, and the physical evidence of the action of like forces in the past.

b. Petrography of Fragmental Rocks. A laboratory study of fragmental rocks, following the same lines as indicated under 5b.

c. Historical Geology. Substantially an introduction to the history of geology. Especial stress is laid on the development of the North American continent.

d. Paleontology. The scheme of instruction in this subject

places before the student the classification adopted for those organic forms occurring as fossils, together with the succession of the various groups in the strata, with the cause, as far as known, for their appearance and disappearance. The student is required to familiarize himself with selected groups of paleozoic fossils, abundant illustrations of which are placed in his hands. *II.*; *I*, *2*; (*5*). Professor ROLFE and Mr. FOX.

*Required:* Geology 5.

2. ECONOMIC GEOLOGY.—A study of the uses man may make of geologic materials; of the conditions under which they occur; and of the qualities which make them valuable. Readings, conferences and laboratory work. Each student may, with the approval of the head of the department, select one or more of the subjects indicated below and devote to it as much time as may seem desirable and profitable. The proportion of time devoted to reading, conference and laboratory will of course vary with the nature of the subject chosen. The new laboratory affords facilities for making the work thoroughly practical.

The subjects from among which students may elect for the purpose of special investigation, are as follows:

Ores and ore deposits: useful minerals other than ores, mineral synthesis. Petrographic studies, properties of clays, which fit them for various uses. Properties of lime and cement-making materials. Properties of building stones. Rock-flours and their uses. Origin and uses of road metals. Studies of ornamental stones. Coal and coal-basins. Hydrographic studies. *Either or both semesters; arrange time; (2, 3 or 5)*. Professor ROLFE, Mr. FOX, Mr. MATSON.

*Required:* Geology 1, 3, 12 or 13.

3. GENERAL GEOLOGY, MINOR COURSE.—This course is an abridgment of courses 5, 1, 2, and 8. One hour each day is devoted to laboratory work, and this time is about equally divided between the study of minerals, rocks, and fossils.

The instruction is by text and lectures, using *Scott's Introduction to Geology* as the basis for the class-room work and a specially prepared guide for the laboratory. *I. and II.*; *M., W., F.*; *6 and 7*; (*3*). Professor ROLFE, Mr. FOX, and Mr. MATSON.

4. INVESTIGATIONS.—Students desiring to take advanced work in any department of dynamic or historical geology, in mineralogy,

or in physical geography, may, with the approval of the head of the department, select a subject for investigation, and will receive such guidance and help as may be necessary. *Either semester; arrange time; (3 or 5).* Professor ROLFE, Mr. FOX, Mr. MATSON.

*Required:* Such preliminary work as will enable the student to carry forward his investigation successfully.

5. ELEMENTS OF MINERALOGY, CRYSTALLOGRAPHY AND PETROGRAPHY OF CRYSTALLINE ROCKS.

a. Mineralogy and Crystallography. In the lectures such subjects as follow are discussed: Genesis of minerals; conditions favoring their deposition; origin of the massive and crystalline forms; relationships of minerals and their classification; the physical properties of minerals, with the conditions which may cause them to vary; the elements of crystallography, including a study of the typical whole, half, and quarter forms of each system, and their identification when in combination. In the laboratory the student is made acquainted with the simplest trustworthy methods for proving the presence or absence of the acids and bases. He is then required to determine a large number of species by their physical and chemical properties only; to trace the origin, transformation, and relationships of each; and explain any variations from the typical form, composition, or physical characters which may occur.

b. Petrography. The classification of rocks, the methods used in their determination, the conditions governing the formation of each species, the decompositions to which they are liable, and the products of these decompositions. *I.; I, 2; (5); for chemical engineers (4).* Mr. FOX.

*Required:* Chemistry I.

6. ADVANCED CRYSTALLOGRAPHY.—During the first part of the semester a detailed study of the forms of crystals, their combinations and abnormalities is made. Later the student learns to measure the facial angles of crystals with the contact or reflecting goniometer, and by mathematical calculations to determine its species. *I.; Tu., Th.; 3, 4; (2).* Professor ROLFE and Mr. FOX.

*Required:* Geology 5 or 10.

7. OPTICAL MINERALOGY.—The student is first made acquainted with the peculiarities of the petrographic microscope. He then places thin sections of minerals and rocks under the microscope and learns to determine their species and the changes which are taking

place in them by their effect on transmitted light. *I.; M., W., F.; 3, 4; (3).* Professor ROLFE and Mr. FOX.

*Required:* Geology 5 or 10.

8. See under Physical Geography.

9. **ADVANCED PALEONTOLOGY.**—The work outlined under geology 10 (p. 229) can do little more than introduce the general subject. To those who desire a better acquaintance with paleontology a course of one or two semesters is offered.

This course includes: (a) Discussion of the biological relations of fossil forms along the lines indicated in Williams' Geological Biology; (b) a discussion of the principles of classification as applied to fossils, together with the characteristics which distinguish the larger groups, using Nicholson, Bernard, and Zittel as guides; (c) a study of the distribution and variations of the genera and species of one or more of the important groups as illustrated by the collections of the University, using the various state reports and Miller's Handbook as aids. *I., II.; 3, 4; (5) either semester.* Professor ROLFE, Mr. FOX, Mr. MATSON.

*Required:* Geology 1 or 3. A major in botany or zoölogy.

12. **AGRICULTURAL GEOLOGY.**—A strictly technical course designed to meet the wants of the agriculturist. *II.; 3, 4; (5).* Professor ROLFE and Mr. MATSON. Open to agricultural students only.

13. **ENGINEERING GEOLOGY.**—This is a strictly technical course dealing with those points which are especially useful to engineers. *II.; 3, 4; (5).* Mr. FOX and Mr. MATSON. Open to engineers only.

14. **METEOROLOGY.**—This course is the same as the first half of 8, and is taken in the same class. It is offered especially to students in agriculture. *I.; M., W., F.; 6 and 7; (3).* Professor ROLFE and Mr. MATSON.

#### COURSES FOR GRADUATES

Courses 2, 4, 6, 7 and 9 may also be taken by graduates. The following by graduates only:

102. **ECONOMIC GEOLOGY.**—The laboratories afford facilities for the study of problems in economic geology by the most approved methods. These problems may be approached from the geological side only in the laboratories of that department, or may be carried on under the joint direction of the departments of geology and applied chemistry.

Again they may be purely laboratory problems, or the student may make an economic survey of some assigned area.

104. DYNAMIC GEOLOGY.—Problems in glacial geology; deserted lake basins; preglacial drainage; the Ozark ridge; water supply; origin of peculiar soils, etc.

108. PHYSICAL GEOGRAPHY.—Studies in Illinois geography, dealing with the topography, meteorology, climatology and natural products of assigned areas.

## GERMAN

Assistant Professor MEYER, Assistant Professor BROOKS, Miss BLAISDELL, Dr. DAVIS, and Mr. SMITH.

1. ELEMENTARY COURSE.—*Vos's Essentials of German, Huss's German Reader. I.; section A, 1; section B, 1; section C, 2; section D, 2; section E, 3; section F, 4; section G, 6; section H, 6; section I, 7; (4).* Assistant Professor MEYER, Assistant Professor BROOKS, Miss BLAISDELL, Dr. DAVIS, Mr. SMITH.

3. NARRATIVE AND DESCRIPTIVE PROSE.—Grammar and syntax, reading of easy texts, exercises in prose composition. *II.; section A, 1; section B, 1; section C, 2; section D, 2; section E, 3; section F, 4; section G, 6; section H, 6; section I, 7; (4).* Assistant Professor MEYER, Assistant Professor BROOKS, Miss BLAISDELL, Dr. DAVIS, Mr. SMITH.

*Required:* German 1, or one year of high school German.

4. DESCRIPTIVE AND HISTORICAL PROSE.—Selections from standard prose writers. Sight reading. Prose composition. *I.; section A, 1; section B, 2; section C, 4; section D, 6; section E, 7; (4).* Assistant Professor MEYER, Assistant Professor BROOKS, Miss BLAISDELL, Dr. DAVIS.

*Required:* German 1 and 3, or two years of high school German.

5. INTRODUCTION TO CLASSICS.—One of Schiller's later dramas, and Goethe's Egmont or Lessing's Minna von Barnhelm. Prose composition. *II.; section A, 2; section B, 6; section C, 8; (4).* Assistant Professor MEYER, Assistant Professor BROOKS, Miss BLAISDELL.

*Required:* German 4.

6. SCIENTIFIC PROSE.—Practice in the rapid reading of works of a general scientific character. *II.*; *section A, 2*; *section B, 7*; (4). Dr. DAVIS.

*Required:* German 4.

7. HEINE'S PROSE; GERMAN LYRICS.—Rapid translation and sight reading of selections from Heine's prose works; study of lyric verse, using as a guide *Hatfield's German Lyrics and Ballads*. *I.*; *M., W., F.*; 7; (3). Assistant Professor MEYER.

*Required:* German 5 or 6, or three years of high school German.

8. SCHILLER.—The life of Schiller and study of *Wallenstein* and other selections. *I.*; *Tu., Th.*; 3; (2). Assistant Professor BROOKS.

*Required:* German 10 or 24.

9. GOETHE'S FAUST.—Part I. and portion of Part II. *I.*; *M., W., F.*; 3; (3). Assistant Professor MEYER.

*Required:* German 10.

10. GOETHE.—The life of Goethe and study of selections from his lyrics, dramas, and prose works. *II.*; *M., W., F.*; 7; (3). Assistant Professor MEYER.

*Required:* German 7 or 12 or 23.

11. HISTORY OF MODERN GERMAN LITERATURE.—Lectures, recitations, and reports on assigned collateral reading. *II.*; *Tu., Th.*; 7; (2). Assistant Professor BROOKS.

*Required:* German 7 or 12 or 23.

12. RECENT AND CONTEMPORARY PROSE FICTION.—Rapid reading of works by Freytag, Dahn, Heyse, Sudermann, and others. *I.*; *Tu., Th.*; 7; (2). Assistant Professor BROOKS.

*Required:* German 5 or 6, or three years of high school German.

16. ADVANCED PROSE COMPOSITION.—Translation of ordinary prose into German, study of idiomatic constructions, and practice in rendering at sight. The work is conducted, as far as practicable, in German, and is given with special reference to the needs of students who intend to teach German. *II.*; *M., W., F.*; 8; (3). Miss BLAISDELL.

*Required:* German 8 or 9 or 10 or 24.

17. INTRODUCTORY COMMERCIAL COURSE.—*Kutner's Commercial German* is used as a guide. Open only to students in business courses. *I.*; *M., W., F.*; 3; (3). Dr. DAVIS.

*Required:* German 3, or two years of high school German.

18. COMMERCIAL FORMS AND CONVERSATION.—Commercial reading and practice in conversation based upon the reading or upon some of the manuals. Reports in German, on current topics in the German newspapers. *II.*; *M., W., F.*; 3; (3). Dr. DAVIS.

*Required:* German 17.

19. JOURNALISTIC GERMAN.—Reading of *Prehn's Journalistic German* and of current numbers of leading periodicals and newspapers. *I.*; *M., W., F.*; 3; (3). Miss BLAISDELL.

*Required:* German 18.

20. PROSE COMPOSITION IN COMMERCIAL GERMAN.—Practice in writing commercial German, discussion of conditions of life in Germany based upon *Fischer's Betrachtungen Eines in Deutschland reisenden Deutschen*. *II.*; *M., W., F.*; 8; (3). Miss BLAISDELL.

*Required:* German 19.

21. HISTORICAL AND ECONOMIC READING.—Selections from standard writers in the field of history and economics. *I.*; *Tu., Th.*; 7; (2). [Not given in 1904-05.] Assistant Professor MEYER.

*Required:* German 20.

22. CORRESPONDENCE AND BUSINESS PROCEDURE.—Study of trade journals, price lists, time tables, etc. *II.*; *Tu., Th.*; 4; (2). [Not given in 1904-05.] Assistant Professor MEYER.

*Required:* German 21.

23. THE ROMANTIC SCHOOL.—Rapid translation and sight reading; reports on assigned reading. The course is offered as an alternative of course 7, though students may elect both. *I.*; *M., W., F.*; 4; (3). Miss BLAISDELL.

*Required:* German 5 or 6, or three years of high school German.

24. RECENT AND CONTEMPORARY DRAMA.—Study of dramas by Heyse, Hauptmann, Sudermann, Fulda, and others. This course is offered as an alternative of course 10, though students may elect both. *II.*; *M., W., F.*; 4; (3). Assistant Professor BROOKS.

*Required:* German 7 or 12 or 23.

25. TEACHERS' COURSE.—Lectures, discussion of methods, examination of text-books. Open to seniors and special students who have not less than 20 hours' credit in German. It should be accompanied or preceded by education 1 or its equivalent. *II.*; *F.*; 7; (1). Assistant Professor MEYER.

26. GERMAN LITERATURE BEFORE THE REFORMATION.—Lectures.

recitations, and reports on assigned reading. The course is intended to cover the period not included in course 11, and students who intend to take course 11 are advised to elect course 26. *I.*; *Tu.*; 8; (1). Assistant Professor BROOKS.

27. LESSING.—The life of Lessing and study of *Nathan der Weise*, *Emilia Galotti*, and other selections. *II.*; *M., W., F.*; 3; (3). Assistant Professor MEYER.

*Required:* German 8 or 9 or 10.

For courses in the Drama and Science of Language see Comparative Literature and Philology.

### COURSES FOR GRADUATES

101. INTRODUCTION TO MIDDLE HIGH GERMAN.—Open to seniors who have had German 10 or 24. *I.*; *M., W., F.*; 8; (3). Assistant Professor BROOKS.

102. OLD HIGH GERMAN AND ELEMENTS OF HISTORICAL GRAMMAR.—Reading of Old High German texts and historical study of German Grammar. *II.*; *Tu., Th.*; 8; (2). Assistant Professor BROOKS.

*Required:* German 101.

103. SEMINARY IN MODERN GERMAN LITERATURE.—Open to seniors who are specializing in German. Some literary movement or group of authors is studied, and the reports presented may be revised and offered as theses. *I. or II.*; *Tu., Th.*; 8; (2) or (4). Assistant Professor MEYER.

### GOVERNMENT, (SCIENCE OF)

1. POLITICAL INSTITUTIONS.—The fundamental principles of politics, comparative study of the political systems of the United States and the leading countries of Europe, with special reference to their historical development and practical operation. *I., II.*; *M., W., F.*; 4; (3). Mr. ....

2. ADMINISTRATION.—This course deals primarily with the administrative functions of government. The administrative systems of the United States, England, France and Germany. *I.*; *Tu., Th.*; 4; (2). Mr. ....

3. CITY GOVERNMENT.—A study of municipal organization and methods of administration in the United States and the principal countries of Europe. *II.*; *M., W., F.*; 3; (3). Mr. ....



4. COMPARATIVE CONSTITUTIONS.—A study of the fundamental political institutions of the United States, England, France, Switzerland, and Germany, as seen in their constitutional systems. *I.; Tu., Th.; 3; (2)*. Mr. ....

*Required:* Government 1.

5. COMPARATIVE ADMINISTRATION.—The appointment, qualifications, legal relations and duties of public officers, with forms and methods of administrative action, and the legislative and judicial control of administration. Mr. ....

*Required:* Government 1.

6. HISTORY OF DIPLOMACY.—A study of the development of international relations, as manifested in treaties, with special reference to the United States. Mr. ....

7. GOVERNMENT OF ILLINOIS.—An historical examination of the development of government in the state of Illinois. *I.; Tu., Th.; 8; (2)*. Mr. ....

POLITICAL ETHICS, HISTORICAL AND APPLIED.—The ethics of social organization; theories of the nature of the state, including views of the state of nature, of natural law and natural right; rights and duties in relation to social institutions; international rights and duties; the ethics of diplomacy. *I.; Tu., Th.; 3; (2)*. Professor DANIELS.

This course must be taken as Philosophy 9.

## GREEK

Professor Moss, Dr. NEVILLE.

Courses 1 to 4, inclusive, are designed to meet the needs of students who cannot present Greek for entrance, and yet wish to study the language. The announcement of authors is tentative, and may be changed as the progress of the classes requires.

1. GRAMMAR AND READER.—*I.; M., Tu., W., Th.; 4; (4)*. Dr. NEVILLE.

2. GRAMMAR AND READER.—*II.; M., Tu., W., Th.; 4; (4)*. Dr. NEVILLE.

*Required:* Greek 1.

3. XENOPHON'S ANABASIS, with selections from the narrative parts of Thucydides. *I.; Tu., W., Th., F.; 3; (4)*. Professor Moss.

*Required:* Greek 2.

4. HOMER.—ODYSSEY.—Selections. *II.*; *Tu., W., Th., F.*; 3;  
(4). Professor Moss.  
*Required:* Greek 3.
5. HERODOTUS.—Greek prose composition. *I.*; *M., Tu., W., Th.*;  
6; (4). Professor Moss.  
*Required:* Entrance credits.
6. ANDOCIDES AND LYSIAS.—Greek prose composition. *II.*; *M.,  
Tu., W., Th.*; 6; (4). Professor Moss.  
*Required:* Greek 5.
7. XENOPHON.—Memorabilia. *I.*; *M., W., Th., F.*; 2; (4). Dr.  
NEVILLE.  
*Required:* Greek 6.
8. PLATO.—One or more complete dialogs, and selections. *II.*;  
*M., W., Th., F.*; 1; (4). Professor Moss.  
*Required:* Greek 7.
9. GREEK ORATORY.—*I.*; *M., W., F.*; 2; (3). Professor Moss.  
*Required:* Greek 8.
10. GREEK TRAGEDY.—*I.*; *Tu., Th.*; 2; (2). Professor Moss.  
*Required:* Greek 8.
11. HOMER.—The Iliad. *II.*; *M., W., F.*; 4; (3). Professor  
MOSS.  
*Required:* Greek 8.
12. THUCYDIDES.—*II.*; *Tu., Th.*; 4; (2). Professor Moss.  
*Required:* Greek 8.
13. NEW TESTAMENT GREEK.—*II.*; *Tu., Th.*; 2; (2). Professor  
MOSS.  
*Required:* Greek 4.
14. GREEK POETRY.—Lectures and prescribed readings from  
English translations. *I.*; *Tu., Th.*; 4; (2). Professor Moss.
15. GREEK PROSE.—Lectures and prescribed readings from Eng-  
lish translations. *II.*; *Tu., Th.*; 1; (2). Professor Moss.
16. THE PRIVATE AND PUBLIC LIFE OF THE GREEK PEOPLE.—  
Lectures and prescribed readings. A large collection of photographs  
is used to illustrate this course. *II.*; *M.*; 3; (1). Professor Moss.  
Courses 14 and 15 are open to any student of the university  
above freshman year.

See also courses in Comparative Literature and Philology.

#### Course for Graduates

101. GREEK ORATORY.—Professor Moss.

## HISTORY

Professor GREENE, Assistant Professor SCHOOLCRAFT, and Mr. ALVORD.

## INTRODUCTORY COURSES—

I. THE MEDIAEVAL AND MODERN HISTORY OF EUROPE.—This course will furnish the best general introduction to the advanced courses of the department. The work of the first semester may be taken separately, but that of the second semester is open only to students who have had some college course in mediæval history. *I., II.; section A, 1; section B, 2; section C, 7; (4).* Professor GREENE, Assistant Professor SCHOOLCRAFT, Mr. ALVORD.

II. THE POLITICAL HISTORY OF ENGLAND.—For students who also take History I, this course counts for three hours only. *II.; daily; 7; (5).* Assistant Professor SCHOOLCRAFT.

3. THE HISTORY OF THE UNITED STATES.—This course begins with a brief review of colonial conditions in 1750, and is intended to give a general view of national development to the close of the Reconstruction period. It is open to all students who have had one year of college work. *I.; daily; 1; (5).* Professor GREENE.

## ADVANCED COURSES—

4. ENGLISH CONSTITUTIONAL HISTORY.—In this study of the growth of the English constitution, some attention is also given to the development of legal institutions. The course is therefore adapted to the needs of students who expect to follow the profession of law. *I., II.; M., W., F.; 3; (3).* Assistant Professor SCHOOLCRAFT.

*Required:* History I or II.

5. THE HISTORY OF GREECE.—*I., II.; M., W., F.; 3; (3).* Mr. ALVORD. [Not given in 1904-05.]

6. THE HISTORY OF ROME.—*I., II.; M., W., F.; 3; (3).* Mr. ALVORD. [Courses 5 and 6 will be given in alternate years.]

*Required:* One year of College work.

7. THE REVOLUTIONARY ERA IN EUROPE, 1763-1815.—*I.; M., W., F.; 2; (3).* Assistant Professor SCHOOLCRAFT.

*Required:* History I, or its equivalent.

9. THE PERIOD OF THE ITALIAN RENAISSANCE.—*II.; M., W., F.; 7; (3).* Mr. ALVORD.

*Required:* History I.

10. THE DEVELOPMENT OF THE BRITISH COLONIAL EMPIRE.—*I.*; *M., W., F.*; 2; (3). Assistant Professor SCHOOLCRAFT. [Not given in 1904-05.]

*Required:* History I or II.

2. THE POLITICAL HISTORY OF EUROPE IN THE NINETEENTH CENTURY.—*I.*; *M., W., F.*; 4; (3). Professor GREENE.

*Required:* History I.

12. THE HISTORY OF GERMANY, 1648-1871.—Special attention is given to the rise of Prussia and the establishment of the new German empire. *II.*; *M., W., F.*; 2; (3). Assistant Professor SCHOOLCRAFT.

*Required:* One year of College work in German or history.

13. THE CONSTITUTIONAL AND POLITICAL HISTORY OF THE ENGLISH COLONIES OF NORTH AMERICA, 1606-1776.—*II.*; *M., W., F.*; 1; (3). Professor GREENE.

*Required:* History II or 3.

14. THE CONSTITUTIONAL HISTORY OF THE UNITED STATES, 1775-1860.—*I.*; *M., W., F.*; 7; (5). Professor GREENE.

*Required:* History 3.

15. THE CONSTITUTIONAL AND POLITICAL HISTORY OF THE UNITED STATES SINCE 1860.—Special attention will be given to the periods of civil war and reconstruction. *II.*; *M., W., F.*; 4; (3). Professor GREENE.

*Required:* History 3. [Open only to juniors, seniors, and graduates.]

16. THE MEDIAEVAL EMPIRE AND THE PAPACY.—The conflict of Church and State. *I.*; *Tu., Th.*; 7; (2). Mr. ALVORD.

*Required:* History I.

#### COURSES FOR GRADUATES

(Open also to seniors writing theses.)

101. SEMINARY IN AMERICAN HISTORY.—*I., II.*; *arrange time*; (2 or more at the option of the students and the instructor). Professor GREENE.

102. SEMINARY IN ENGLISH HISTORY.—This course is adapted to students who wish to write theses in English history. *I., II.*; *arrange time*; (2 or more at the option of the students and the instructor). Assistant Professor SCHOOLCRAFT.

Attention is also called to the courses in economic history offered by the department of economics.

## HORTICULTURE

Professors BLAIR and BURRILL, Assistant Professors LLOYD and CRANDALL, Mr. BEAL.

1. PRINCIPLES OF FRUIT GROWING.—An introductory course dealing with the fundamental principles of fruit culture. It embraces a study of location with reference to climate and markets, planting, soil treatment, pruning, protection from insects and diseases, harvesting and marketing. It is advised that Botany I or II be taken before or contemporaneously with this course. Recitations, reference readings, and practical exercises. *I.*; *Recitations, M., W., F.*; 6; *Laboratory, Tu., Th.*; 6, 7; (5). Assistant Professor LLOYD.

2. SMALL FRUIT CULTURE.—A study of the strawberry, raspberry, blackberry, dewberry, currant, gooseberry, cranberry, and juneberry. Each fruit is studied with reference to history, importance and extent of cultivation, soil, location, fertilizers, propagation, planting, tillage, pruning, insect enemies, diseases, varieties, harvesting, marketing, profits. Recitations and reference readings, with occasional practical exercises. *II.*; *Tu., Th.*; 1; (2). Assistant Professor LLOYD.

3. VEGETABLE GARDENING.—An introductory course, including a study of the general principles of vegetable gardening and a brief consideration of the cultural requirements of each of the common vegetables. Special attention is given to the home garden. *II.*; *M., W., F.*; 1; (3). Assistant Professor LLOYD.

4. PLANT HOUSES.—The construction and management of plant houses, with especial reference to the growing of vegetables under glass. Text-book and laboratory work. *I.*; *Recitations, Tu., Th.*; 1; *Laboratory, M., W., F.*; 1, 2; (5). Mr. BEAL.

5. PLANT PROPAGATION.—Grafting, budding, layering, making cuttings, pollination, seedage, etc. Text-book and laboratory work. *I.*; *second half; Recitations; section A, M., W.*; 3; *section B, Tu., Th.*; 7; *Laboratory; section A, Tu., Th., S.*; 3, 4; *section B, M., W., F.*; 6, 7; (2½). Mr. BEAL.

6. NURSERY METHODS.—A study of some details of nursery management and their relation to horticulture in general. Lectures and reference readings. *II.*; *first half; daily*; 8; (2½). Assistant Professor CRANDALL.

*Required:* Horticulture 1, 5; Entomology 4.

7. **SPRAYING.**—The theory and practice of spraying plants, embracing a study of materials and methods employed in the combating of insects and fungous diseases. Recitations, reference readings, and laboratory work. *II.*; *second half*; *Recitations, Tu., Th.*; *6*; *Laboratory, M., W., F.*; *6, 7*; (*2½*). Assistant Professor LLOYD.

*Required:* Horticulture I; Entomology 4; Chemistry 1.

8. **ORCHARDING.**—A comprehensive study of pinnaceous fruits (apple, pear, quince), and drupaceous or stone fruits (plum, cherry, peach, nectarine, apricot). Each fruit studied with reference to the points enumerated under 2, above. Lectures, text-books, and laboratory work. *II.*; *Recitations, M., W., F.*; *3*; *Laboratory, Tu., Th.*; *3, 4*; (*5*). Professor BLAIR.

*Required:* Horticulture I; Botany I or II.

9. **FORESTRY.**—This course embraces a study of forest trees and their natural uses, their distribution, and their artificial production. The relations of forest and climate are studied, and the general topics of forestry legislation and economy are discussed. *II.*; *Tu., Th.*; *4*; (*2*). Professor BURRILL.

*Required:* Botany I or II.

10. **LANDSCAPE GARDENING.**—Ornamental and landscape gardening, with special reference to the beautifying of home surroundings. Lectures illustrated by means of lantern slides and charts, recitations, reference readings, and practical exercises. *II.*; *M., W., F.*; *4*; (*3*). Professor BLAIR.

*Required:* Two years of University work, or special preparation.

11. **ECONOMIC BOTANY.**—Useful plants and plant products. Lectures and assigned readings. *I.*; *Tu., Th.*; *3*; (*2*). Professor BURRILL.

*Required:* Regular admission; Botany I or II.

12. **EVOLUTION OF CULTIVATED PLANTS.**—Comprising a study of organic evolution and the modification of plants by domestication. *I.*; *second half*; *daily*; *3*; (*2½*). Assistant Professor CRANDALL.

*Required:* Regular admission; two years of University work, including Thremmatology.

13. **VITICULTURE.**—A comprehensive study of the grape and its products. *I.*; *second half*; *daily*; *5*; (*2½*). Assistant Professor CRANDALL.

*Required:* Horticulture I, 5.

14. NUT CULTURE.—The cultivation and management of nut-bearing trees for commercial purposes. *II.*; *first half*; *daily*; 6; ( $2\frac{1}{2}$ ). Assistant Professor CRANDALL.

*Required:* Horticulture 1, 5.

15. COMMERCIAL FLORICULTURE.—A study of the growing of cut flowers and decorative plants. Recitations and practical exercises in the greenhouse. *II.*; *daily*; 3; (5). Mr. BEAL.

*Required:* Horticulture 4, 5; Botany 2.

16. GENERAL HORTICULTURE.—For students not registered in the College of Agriculture. A course covering the general principles and processes of fruit-growing, gardening, floriculture, and ornamental planting. *I.*; *daily*; 2; (5). Professor BLAIR, Assistant Professor LLOYD, and Mr. BEAL.

17. COMMERCIAL HORTICULTURE.—A course giving practical training for those students intending to follow horticulture as a business. Work in houses, orchards, and gardens—suited to ability and requirements of each student. Special permission required for admission into this course. *I., II.*; *arrange hours*; (5-20). Assistant Professors LLOYD and CRANDALL, Mr. BEAL.

18. EXPERIMENTAL HORTICULTURE.—A course for those intending to engage in professional horticulture or experiment station work. For advanced students. *I.*; *daily*; 1; (5). Professor BLAIR, Assistant Professors LLOYD and CRANDALL.

*Required:* Regular admission; twenty hours' work in horticulture.

19. AMATEUR FLORICULTURE.—A study of window gardening and the growing of flowers on the home grounds, including the culture of roses and flowering shrubs. Recitations and practical exercises. *I., II.*; *Th., Sat.*; 2; (2). Mr. BEAL.

*Required:* Botany I or II.

20. MARKET GARDENING.—The application of the principles of vegetable gardening to operations on a commercial scale. Special attention is given to the preparation of vegetables for market. Lectures, reference readings and practical exercises. *II.*; *second half and summer vacation*; *arrange time*; ( $2\frac{1}{2}$ -5). Assistant Professor LLOYD.

*Required:* Horticulture 3.

21. SPECIAL VEGETABLE CROPS.—In this course the work of each student is largely individual, being an exhaustive study of some

vegetable or groups of vegetables from a horticultural standpoint. Reference readings and field experiments. *II.*; *second half and summer vacation; arrange time; (2½-5)*. Assistant Professor LLOYD.

*Required:* Horticulture 3.

22. SPECIAL INVESTIGATION AND THESIS WORK.—Required of candidates for graduation. *I., II.*; *arrange time; (5-10)*. Professors BLAIR and BURRILL, Assistant Professors LLOYD and CRANDALL.

#### COURSES FOR GRADUATES

101. POMOLOGY.—Special studies of orchard fruits. *Arrange time*. Professor BLAIR.

102. POMOLOGY.—Special studies of grapes, nuts, and other fruits. *Arrange time*. Assistant Professor CRANDALL.

103. OLERICULTURE.—Studies of special groups of vegetables. Assistant Professor LLOYD.

#### HOUSEHOLD SCIENCE

Professor BEVIER and Mrs. SOBER.

1. PRINCIPLES OF THE SELECTION AND PREPARATION OF FOOD.—The nature and uses of food, its chemical composition, and the changes effected by heat, cold or fermentation. Practical illustrations of the principles of selection are given by marketing expeditions. Some of the processes of the manufacture of food are considered, as well as the combinations of different kinds. *Knight's Food and Its Functions. II.*; *section A, M., W., F.*; *1, 2; section B, 7, 8; (3)*. Mrs. SOBER.

*Required:* Entrance credit in Physics; entrance credit in Chemistry, or Chemistry I.

2. HOME ARCHITECTURE AND SANITATION.—The situation, surroundings, and construction of the house; the hygiene of the home; heating, lighting, ventilation, water supply, and drainage. Lectures on house planning, with exercises in making skeleton plans, and on sanitary plumbing and fixtures and internal drainage.\* *I.*; *Tu., Th.*; *2; (2)*. Professor BEVIER.

3. ELEMENTARY HOME DECORATION.—A continuation of course 2. Lectures† on the evolution of the house and the homes of primitive peoples, the theory of color and its application in home deco-

\* By Professors White and McLane.

† By Professors Ricker and Wells.



ration. The evolution of the home, some of the principles of home management and furnishings from a sanitary and artistic standpoint. *II.*; *Tu., Th.*; 2; (2). Professor BEVIER.

*Required:* Art and Design 1 and 16.

4. CHEMISTRY OF FOOD AND NUTRITION.—Food and nutrition from the standpoint of sanitary and physiological chemistry. Investigations in the study of yeasts; household applications of bacteriology; dietaries adapted to different ages, occupations, and conditions. *Richard and Woodman's Air, Water, and Food; Halliburton's Essentials of Chemical Physiology; Government Bulletins. I.*; *M. W.*; 3, 4; *Tu., Th., F.*; 3; (5). Professor BEVIER.

*Required:* Bot. 5; Chem. 1, 3b, 4, 5c, 20; 5 hours in Botany or Zoölogy; Household Science 1, 6, 5.

5. DIETETICS AND HOUSEHOLD MANAGEMENT.—The topics considered are: (a) The principles of diet; the relation of food to health; the influence of age, sex, and occupation; the dietetic treatment of certain diseases; principles of home nursing. (b) The organization and care of the household; the processes involved in the cleaning of metals, woods, and fabrics; the use of disinfectants. *II.*; *M., W., F.*; 5; (3). Mrs. SOBER.

*Required:* Household Science 1, 6.

6. ECONOMIC USES OF FOOD.—This course is a continuation of course 1. Emphasis is put upon the economic side of the food question. The uses and applications of preservatives are considered. *I.*; *M., W., F.*; 1, 2; (3). Mrs. SOBER.

*Required:* Household Science 1.

7. TEXTILES.—The development of primitive industries, production of fibers used in textile manufactures; properties of fibers, preparation, adulteration, manufacture. *I.*; *Tu., Th.*; 7; (2). Mrs. SOBER.

8. PERSONAL AND PUBLIC HYGIENE.—In this course such phases of the subject are considered as have a direct practical bearing upon individual and public health. *II.*; *Tu.*; 8; (1). Professor BEVIER.

9. SEMINARY.—Reports and discussions upon assigned topics. For advanced students. *I., II.*; *W.*; *arrange time*; (1). Professor BEVIER.

#### COURSES FOR GRADUATES

101. HOME ECONOMICS.—A study of the origin and development of Home Economics, with particular reference to its industrial,

educational, and sociological aspects. *Arrange time.* Professor BEVIER.

102. SPECIAL INVESTIGATIONS.—Problems in the application of the principles of bacteriology, chemistry, and physiology, to the ordinary processes used in the preparation of food. *Arrange time.* Professor BEVIER.

## ITALIAN

Professor OLIVER, Dr. JONES.

1. GRAMMAR AND READING.—Italian grammar with composition. Reading of modern Italian. Toward the end of the year the class will begin the study of Dante. Outlines of Italian literature. *I., II.; M., W., F.; 3; (3).* Dr. JONES.

## LATIN

Professor BARTON, Dr. NEVILLE.

1. CICERO AND PLINY.—De Amicitia and De Senectute; composition based on the text; selections from Pliny's letters; Roman life in Pliny's time. Students offering nine credits in Latin for admission will take this course. *I., II.; M., Tu., W., Th.; 1; (4).* Dr. NEVILLE.

2. LIVY.—Selections from the XXI. and XXII. books. Noun and verb syntax and facility in English expression are emphasized. Students offering twelve credits in Latin for admission will take this course. *I.; M., Tu., W., F.; 2; (4).* Professor BARTON.

3. TERENCE.—Phormio, Roman Comedy; Roman Life in Prose and Verse; outlines of Roman literature. *II.; M., Tu., W., F.; 2; (4).* Professor BARTON.

4. HORACE AND CATULLUS.—The Odes of Horace and the lyrics of Catullus. *I.; Tu., W., Th., F.; 7; (4).* Dr. NEVILLE.

*Required:* Latin 2, 3.

5. TACITUS.—Selections from the Annales; his style and diction compared with the earlier historians. *II.; Tu., Th.; 8; (2).* Dr. NEVILLE.

*Required:* Latin 2, 3. [Not given in 1904-05.]

6. PLATUS.—Five plays. The development of the Roman drama. *II.; Tu., W., Th., F.; 7; (4).* Professor BARTON.

*Required:* Latin 2, 3.

7. PROSE OF THE EARLY AND LATE EMPIRE.—Selections from Petronius, Pliny the Elder, Suetonius, Apuleius, and Minucius Felix. The Roman novel. *II.*; *Tu., Th.*; 8; (2). Dr. NEVILLE.

*Required:* Latin 2, 3.

8. ROMAN SATIRE AND EPIGRAM.—Selections from Juvenal and Martial. *II.*; *M., W., F.*; 3; (3). Dr. NEVILLE.

*Required:* Latin 2, 3.

9. TEACHERS' COURSE.—The purposes and methods of preparatory Latin instruction. *II.*; *M., W., F.*; 3; (3). Professor BARTON.

10. LATIN PROSE COMPOSITION.—Intended especially for students having the teaching of Latin in view. *I.*; *M., W., F.*; 3; (3). Professor BARTON.

11. THE ELEGIAC POETS.—Tibullus, Propertius, and Ovid. *I.*; *M., W., F.*; 3; (3). Dr. NEVILLE.

*Required:* Latin 2, 3.

12. LATIN LITERATURE IN ENGLISH.—A study of masterpieces of Latin literature in English translations. Open to all students except freshmen. *II.*; *M.*; 8; (1). Professor BARTON.

13. PRIVATE LIFE OF THE ROMANS.—Illustrated lectures and assigned readings. *II.*; *F.*; 8; (1). Professor BARTON.

14. SENECA.—Two or three plays; Roman tragedy; selections from essays and epistles. *I.*; *M., W., F.*; 7; (3). Professor BARTON.

*Required:* Latin 2, 3.

15. POETRY OF THE EARLY AND LATE EMPIRE.—Selections from Lucanus, Calpurnius, Valerius Flaccus, Ausonius and Claudianus. *I.*; *Tu., Th.*; 8; (2). Professor BARTON.

*Required:* Latin 2, 3.

See also courses in Comparative Literature and Philology.

## LAW

Professors HARKER, PICKETT, DREW, HUGHES, Assistant Professors NORTHROP and DENNIS.

1. CONTRACTS.—Text-book, *Williston's Cases on Contracts I., II.*; (3). Professor PICKETT.

2. TORTS.—Text-book, *Ames and Smith's Cases on Torts. I., II.*; (2). Assistant Professor DENNIS.

3. REAL PROPERTY.—Text-book, *Gray's Cases on Property. I., II.*; (2). Assistant Professor NORTHROP.

4. COMMON LAW PLEADING.—Text-book, *Perry on Common Law Pleading*. I.; (2). Professor HARKER.
5. CRIMINAL LAW.—Text-book, *Beale's Cases on Criminal Law*. II.; (3). Professor HUGHES.
6. PERSONAL PROPERTY.—Text-book, *Gray's Cases on Property*. I.; (1). Assistant Professor NORTHRUP.
7. DOMESTIC RELATIONS.—Text-book, *Smith's Cases on Law of Persons*. II.; (2). Assistant Professor DENNIS.
8. EVIDENCE.—Text-book, *Thayer's Cases on Evidence*. I.; (4). Professor HUGHES.
9. SALES.—Text-book, *Williston's Cases on Sales*. II.; (3). Assistant Professor NORTHRUP.
- 10a. REAL PROPERTY.—Text-book, *Gray's Cases on Property*. I.; (2). Assistant Professor NORTHRUP.
- 10b. REAL PROPERTY.—Text-book, *Gray's Cases on Property*. II.; (2). Assistant Professor NORTHRUP.
11. AGENCY.—Text-book, *Wambaugh's Cases on Agency*. II.; (3). Professor DREW.
12. EQUITY.—Text-book, *Ames' Cases on Equity*. I., II.; (2). Professor PICKETT.
13. DAMAGES.—Text-book, *Beale's Cases on Damages*. I.; (2). Professor DREW.
14. BAILMENTS AND CARRIERS.—Text-book, *McClain's Cases on Carriers*. I.; (2). Assistant Professor DENNIS.
15. BILLS AND NOTES.—Text-book, *Ames' Cases on Bills and Notes*. I., II.; (2). Professor PICKETT.
16. TRUSTS.—Text-book. *Ames' Cases on Trusts*. I.; (3). Professor DREW.
17. PRIVATE CORPORATIONS.—Text-book, *Smith's Cases on Private Corporations*. I.; (3). Professor HUGHES.
18. WILLS AND ADMINISTRATION.—Text-book, *Gray's Cases on Property, Vol. IV*. I.; (2). Assistant Professor NORTHRUP.
19. PARTNERSHIP.—Text-book, *Ames' Cases on Partnership*. II.; (2). Professor HUGHES.
20. EQUITY PLEADING.—Text-book, *Shipman on Equity Pleading*. II.; (2). Professor HARKER.
21. SURETYSHIP.—Text-book, *Ames' Cases on Suretyship*. II.; (3). Professor DREW.
- 21a. MORTGAGES.—Text-book, *Black on Mortgages*. II.; (1). Professor HARKER.

22. CONSTITUTIONAL LAW.—Text-book, *McClain's Cases on Constitutional Law. I., II.; (2)*. Assistant Professor DENNIS.
24. MUNICIPAL CORPORATIONS.—Text-book, *Smith's Cases on Municipal Corporations. II.; (1)*. Professor HUGHES.
26. MOOT COURT.—*I., II.; (1)*. Professor HARKER.
- \*28. INSURANCE.—Text-book, *Wambaugh's Cases on Insurance. II.; (2)*. Professor PICKETT.
- \*30. BANKRUPTCY.—Text-book, *Williston's Cases on Bankruptcy*. Professor PICKETT. [Not given in 1904-05.]
- \*31. CONFLICT OF LAWS.—Text-book, *Beale's Cases on Conflict of Laws*. [Not given in 1904-05.]
- \*32. QUASI-CONTRACTS.—Text-book, *Keener on Quasi-Contracts*. [Not given in 1904-05.]
33. ANALYSIS OF CASES.—Text-book, *Wambaugh's Cases for Analysis. I.; (1)*. Professor DREW.

## LIBRARY SCIENCE

Professor SHARP, Assistant Professor SIMPSON, Miss GOODALE, Miss JACKSON, Miss RANDALL, and Miss WALDO.

1. ELEMENTARY LIBRARY ECONOMY.—Instruction follows the regular library routine. The work of the order department is taught by lectures and practice. American, English, French, and German trade bibliography is introduced. Instruction in the accession department is according to Dewey's Library School Rules. Lectures are given upon duplicates, exchanges, gifts, importing, copyright, and allied topics. The Dewey decimal classification is taught by classifying books. In the shelf department Dewey's Library School Rules is used and supplemented with lectures. Sample shelf-lists are made with both sheets and cards. Cataloging is taught according to Dewey's Library School Rules and Cutter's Rules for a Dictionary Catalog. After each lecture students are required to catalog independently a number of books, and to modify the rules to suit different types of libraries. Lectures on card catalogs and mechanical accessories. Library handwriting. *I., II.; daily; 2; (5)*. Miss GOODALE.

2. ELEMENTARY REFERENCE.—The aim of this course is to train

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\* Courses marked with asterisk are elective for students of law in the second and third years only, and do not count for the degree of LL.B. Courses 22 and 24 are open to students of the College of Literature and Arts without fee and count for credit towards the Arts' degree.

students in method of research and to familiarize them with the principal reference books. Lessons are assigned on reference books considered in groups, such as indexes, dictionaries, encyclopedias, atlases, hand-books of history, hand-books of general information, quotations, statistics, etc. Reference lists are prepared for special classes and for literary societies, and the students have practical work in the reference department of the library. *I., II.; section A. Tu., Th.; section B, W., F.; 1; (2).* Assistant Professor SIMPSON.

3. SELECTION OF BOOKS.—Lectures are given upon methods and principles of selection for different libraries and subjects, and typical books chosen to illustrate each subject are discussed in class. The Publishers' Weekly and various critical periodicals are used to give students familiarity with new books. Representative new books are examined and received by each student and discussed in class with special reference to author and subject of each book, its special features, probable value in different types of libraries, and the extent to which it supplements or supersedes earlier books on the same subject. The work is continued as a part of Library 6. *I., II.; M.; 1; (2).* Miss RANDALL.

4. ELEMENTARY LABORATORY COURSE.—The purpose of this work is to familiarize the students with the minor work of a library and to acquaint them with the books in the University library. Each student is given practical work in the mechanical preparation of books for the shelves, and in the copying of minor library records assigned as practice in library handwriting.

The care of the books in the stacks, including the reading of shelves, is assigned to the students, who are thus brought in contact with the books. *I.; section A, M., W.; section B, Tu., Th.; Lecture, F.; Laboratory, 3 periods per week; 4; (1). II.; daily; Lecture, F.; 4; Laboratory, 15 periods per week. 4, 5, 7 or 4, 7, 8; (5).* Miss RANDALL.

*Required:* Library 1, 2.

5. ADVANCED LIBRARY ECONOMY.—Advanced and comparative cataloging and classification. Problems in organizing and reorganizing libraries. The class discusses questions affecting the founding and government of libraries, library legislation, library architecture, library administration, and current problems in public and college library work. This course includes one hour of Library 14. *I., II.; M., Tu., W., Th.; 4; F.; 3; (5).* Professor SHARP.

*Required:* Library 4.

6. BIBLIOGRAPHY.—Lectures on the principles underlying selection of books by professors from different departments. These lectures are supplemented with class work and problems from the librarian's point of view. Students in this course take the bibliography of history and the social sciences (Econ. 40). *I., II.; Tu., Th.; 3; (4)*. Professor SHARP and others.

7. HISTORY OF LIBRARIES.—The history of the leading ancient, mediæval, and modern libraries. The library movement in the United States. Libraries are studied by types and by countries, with particular attention to the relation between the social, intellectual, and political movements in each country and the growth of libraries. This course is supplemented with Library 14 in a study of library reports and other publications. *I.; W.; 3; (3)*. Assistant Professor SIMPSON.

8. ADVANCED REFERENCE.—Advanced reference books, including important transactions of societies, periodicals, special indexes, and other publications of special value in reference work in a university library. Reports on current events. Emphasis is laid upon problems in difficult research work. This course is intended primarily for students who are preparing for college library positions, but may be elected by any one who has satisfactorily completed Elementary Reference. *I.; W.; 3; (2)*. Assistant Professor SIMPSON.

*Required:* Library 2.

9. BOOK-MAKING.—A brief history of writing, of the early forms of books, of the invention and spread of printing, of book illustration, and of the art and practice of binding. *II.; W.; 3; (3)*. Professor SHARP.

10. ADVANCED APPRENTICE WORK.—This consists of independent technical work in the University library, averaging two hours a day through the year. Students revise class cataloging for review, classify and catalog new books, and have regular assignments at the reference desk. Each student is held accountable for the performance or supervision of some branch of work in the University library for one or two semesters. As a test of executive ability, each one is given several fourth year students as assistants. *I., II.; daily; Lecture, F.; 7; Laboratory, 9 periods per week; arrange time; (3)*. Miss RANDALL.

*Required:* Library 4.

11. THESIS.—Each student is required to prepare a thesis for graduation. This must be on some library topic, and must repre-

sent original research. An original bibliography, instead of a thesis, may be presented upon the approval of the director. *I.*; *arrange time*; (1). *II.*; *arrange time*; (3). Professor SHARP.

12. GENERAL REFERENCE.—This course is offered to all students. It comprises lectures on the catalog, classification, the reference-room, the reading-room, and groups of books, such as indexes, dictionaries, encyclopedias, atlases, hand-books of general information, hand-books of history, statistics, quotations, etc. *I.*; *M.*; 6:30 *p. m.*; (1). Miss WALDO.

13. PUBLIC DOCUMENTS.—This course covers the study of federal, state, and municipal documents, together with the study of the formation of government as expressed in its publications. Documents are studied both for their value as reference books and for correct methods of cataloging. Methods of printing and distribution, and important indexes, both general and special, are considered. Practical reference questions are given, and a sample catalog is made illustrating the various principles. The rules followed in this work are compiled by each student. *I., II.*; *W.*; 7, 8; (2). Miss JACKSON.

*Required:* Library 1, 2.

14. LIBRARY SEMINARY.—Fourth and fifth year students meet together once a week to examine library publications and to consider them in their relation to library history, biography, and administration. Once a week the fourth year students alone meet to discuss such topics as library associations, library schools, library commissions, traveling libraries, home libraries, and principles underlying the relation of the library to the public. *I., II.*; *M., F.*; 3; (2). Professor SHARP.

## MATERIALS OF COMMERCE

1. AGRICULTURAL.—A study of the animals, grains, fruits, vegetables, and forage crops entering the channels of trade, together with a sketch of their manufactured products and by-products. *I.*; *Tu., Th.*; *arrange time*; (2). (Given by several instructors.)

2. CHEMICAL.—Classification and review of the chemical industries, including related lines which depend for their success upon chemical processes, followed by a study in detail of typical industries. *I., II.*; *arrange time*; (2). Professor PARR.

*Required:* Chemistry 1.



3. ZOOLOGICAL.—A study of the origin and uses of economic products derived from the animal kingdom, aside from those ordinarily classed as agricultural, as the products of the fisheries (marine and fresh water), of fur-bearing animals, bees, the silk worm, etc. Injuries by insects to stored merchandise and other manufactured property. *I.; W., F.; 1, 2; (2)*. Assistant Professor SMITH.

See also Botany 8 and Geology 2.

## MATHEMATICS

Professor SHATTUCK, Associate Professor TOWNSEND, Assistant Professor HALL, Mr. BRENKE, Mr. MILNE, Dr. COAR, Mr. PONZER, Miss WHITE, Dr. RIETZ, and Dr. STEBBINS.

1. ADVANCED ALGEBRA.—This course is offered for those students who wish to cover in five hours of mathematical work the subject of college algebra and that of plane and spherical trigonometry (Math. 3). The course presupposes a thorough working knowledge of elementary algebra through simultaneous quadratics. The same subjects are considered as in course 2, but more briefly. *I.; last seven weeks; daily; 3; (2)*. Mr. BRENKE.

\*2. ADVANCED ALGEBRA.—This course is for those students who wish to cover in five hours of mathematical work the subject of college algebra and that of plane trigonometry (Math. 4).

The following topics are considered: Progressions, undetermined coefficients, binomial theorem, logarithms, permutations and combinations, probability, convergence of series (or determinants), and the theory of equations, with special reference to the solution of numerical equations of the third and fourth degree. *Sections A to N are for engineers, sections O to R are for students of the College of Science, and the College of Literature and Arts. I.; last eleven weeks; daily; section A, 6; section B, 4; section C, 2; section D, 3; section E, 6; section F, 1; section G, 3; section H, 7; section I, 1; section J, 4; section K, 2; section L, 7; section M, 3; section N, 8; section O, 2; section P, 4; section Q, 6; section R, 7; (3)*. Assistant Professor HALL, Mr. MILNE, Dr. COAR, Mr. PONZER, Dr. RIETZ, Miss WHITE.

3. PLANE AND SPHERICAL TRIGONOMETRY.—This course covers the same ground in plane trigonometry as course 4. In addition to the work outlined there, about four weeks are spent on the general

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\* Two sections, N, Q, repeat the work in the second semester.

principles and applications of spherical trigonometry. *I.*; *first eleven weeks; daily; 3; (3).* Mr. BRENKE.

*Required:* Solid and Spherical Geometry.

4. PLANE TRIGONOMETRY.\*—Sections A to N are for engineers, sections O to R are for students of the College of Science, and the College of Literature and Arts. *I.*; *first seven weeks; daily; section A, 6; section B, 4; section C, 2; section D, 3; section E, 6; section F, 1; section G, 3; section H, 7; section I, 1; section J, 4; section K, 2; section L, 7; section M, 3; section N, 8; section O, 2; section P, 4; section Q, 6; section R, 7, (2).* Assistant Professor HALL, Mr. MILNE, Dr. COAR, Mr. PONZER, Miss WHITE, Dr. RIETZ.

Section S is taught on Tuesdays and Thursdays throughout the first semester, at the eighth hour, for students registered in the preliminary medical course.

6. ANALYTICAL GEOMETRY.—The aim is to acquaint the student with analytical methods of investigation and to familiarize him with the general properties of conics, including a discussion of the general equation of the second degree and its geometrical interpretation. Special emphasis is placed upon the use of algebraic processes as a means of demonstrating geometrical properties of loci. To this is added a brief course on the analytical geometry of three dimensions, including co-ordinate systems in space, the relations of points, straight lines, and planes in space, as also the general properties of surfaces of second order. Sections A to N are for engineers, sections O to Q are for students of the College of Science, and the College of Literature and Arts. *II.*; *daily; section A, 6; section B, 4; section C, 2; section D, 3; section E, 6; section F, 1; section G, 3; section H, 7; section I, 1; section J, 4; section K, 2; section L, 7; section M, 3; section N, 8; section O, 2; section P, 4; section Q, 6; (5).* Assistant Professor HALL, Mr. MILNE, Dr. COAR, Mr. PONZER, Miss WHITE, Dr. RIETZ.

*Required:* Mathematics 1, 3 or 2, 4.

7. DIFFERENTIAL CALCULUS.—The principles of the differential calculus are developed and applied to functions of one and of several variables, with special reference to the needs of engineering students. *I.*; *section A, 1; section B, 1; section C, 6; section D, 7; section E, 7; section F, 1; section G, 6; section H, 2; section I, 1; section J, 6; (5).* Assistant Professor HALL, Mr. BRENKE, Mr. PONZER, Miss WHITE, Dr. RIETZ.

*Required:* Mathematics 6.

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\* Two sections, N, Q, repeat the work in the second semesters.

8a. DIFFERENTIAL AND INTEGRAL CALCULUS.—A general introduction to the principles of differential and integral calculus. *I.*; *I.*; (5). Associate Professor TOWNSEND.

*Required:* Mathematics 6.

8b. DIFFERENTIAL AND INTEGRAL CALCULUS (Advanced course).—A continuation of 8a. The application of calculus to geometry and mechanics, begun in 8a, is extended throughout the course. *I.*, *II.*; *Tu., Th.*; 2; (2). Associate Professor TOWNSEND.

*Required:* Mathematics 8a.

9. INTEGRAL CALCULUS.—This course together with mathematics 7 constitutes a year's continuous work in calculus. The general principles of the integral calculus are developed with usual applications to geometry, centers of gravity, moments of inertia, etc. A brief introduction to ordinary differential equations is also included. *II.*; *Tu., M., Th., F.*; *section A, 1; section B, 1; section C, 6; section D, 7; section E, 7; section F, 1; section G, 6; section H, 2; section I, 1; section J, 6;* (4). Assistant Professor HALL, Mr. BRENKE, Mr. PONZER, Miss WHITE, Dr. RIETZ.

*Required:* Mathematics 7.

10. THEORY OF EQUATIONS.—A continuation of the theory of equation given in college algebra (Math. I 2). It is based on *Burnside and Panton's Theory of Equations, Part I.* *II.*; *M., W., F.*; 7; (3). Associate Professor TOWNSEND.

*Required:* Mathematics 2, 4 (or 1, 3), 6.

11. THEORY OF DETERMINANTS.—The general principles and properties of determinants, including determinants of special form and the functional determinants—Jacobians, Hessians, Wronskians. The application of determinants to the theory of equations, analytical geometry including linear transformation. *II.*; *Tu., Th.*; 7; (2). Assistant Professor HALL.

12. THEORY OF INVARIANTS.—The general development of the theory of invariants, both from the geometric and from the algebraic side. Applications of invariants to systems of conics and higher plane curves. *I.*; *M., W., F.*; 7; (3). Dr. RIETZ.

*Required:* Mathematics 8b (or 9), 11.

13a. FUNCTIONS OF REAL VARIABLES.—The two courses in functions (13a, 13b) are a continuation of the work done in calculus (8a, 8b, or 7, 9). Under functions of real variables, considerable attention is given to the fundamental ideas of the analysis, including

rational and irrational numbers, *mengellehre*, single and double limits and their application to questions of continuity of functions of one or two variables, uniform, convergence of series, etc. The existence of derivatives, condensation of singularities, definite integrals, differentiation and integration of series are also discussed. *I., II.; M., W., F.; 8; (3)*. Associate Professor TOWNSEND.

*Required:* Mathematics 8a, 8b (or, 7, 9), 10.

13b. FUNCTIONS OF A COMPLEX VARIABLE.—A general introduction to the theory of functions of a complex variable. The methods of Weierstrass and Riemann are followed. *I., II.; M., W., F.; 8; (3)*. Associate Professor TOWNSEND.

*Required:* Mathematics 8a, 8b (or, 7, 9), 10.

14. METHOD OF LEAST SQUARES.—The fundamental principles of the subject. The following subjects are studied: Law of probability and error, adjustment of observations, precision of observations, independent and conditional observations, etc. *I.; Tu., Th.; 6; (2)*. Dr. STEBBINS.

*Required:* Mathematics 8a, or 9.

15. SEMINARY AND THESIS.—*I., II.; Tu., Th.; 8; (3)*. Associate Professor TOWNSEND.

16. DIFFERENTIAL EQUATIONS.—For students in the courses of engineering and of mathematics and astronomy. It embraces the following topics: General linear equations with constant coefficients, special forms of differential equations of higher order, integration in series, etc. *I.; M., W., F.; 4; (3)*. Professor SHATTUCK.

*Required:* Mathematics 8a, or 9.

17. ANALYTICAL GEOMETRY OF SPACE.—A general review of the position of the plane and the right line in space and the more general properties of surfaces of the second degree. The classification and special properties of quadratics, and a brief introduction to the theory of surfaces in general. *II.; M., W., F.; 2; (3)*. Associate Professor TOWNSEND.

*Required:* Mathematics 8a (or 7), 11.

18. HIGHER PLANE CURVES.—This course includes the general theory of algebraic curves, together with the application of the theory of invariants to higher plane curves. Special study is made of curves of the third and fourth order. *II.; M., W., F.; 7; (3)*. Dr. RIETZ.

*Required:* Mathematics 12.

20. CALCULUS OF VARIATIONS.—This course has for its aim merely to acquaint the student with those elements of the science which are most needed in the study of the higher subjects of mathematical astronomy and physics. *II.*; *M., W., F.*; 4; (3). Professor SHATTUCK.

*Required:* Mathematics II, 16.

21. SPHERICAL HARMONICS.—This course is introduced by a short course of lectures and study of certain trigonometric series. Fourier's Theorem for developing any function of a variable in a series proceeding in sines and cosines of multiples of the variable is derived and the limitations of its validity investigated. This is followed by the study of Lagrange's, Laplace's, and Lamé's functions and their applications to astronomical and physical problems. *I.*; *M., W., F.*; 6; (3). Mr. BRENKE or Assistant Professor HALL.

*Required:* Mathematics II, 14, 16.

22. POTENTIAL FUNCTION.—The potential function is defined and its properties derived and discussed. The potential of various bodies, such as of wire, a spherical shell, a sphere, ellipsoid of revolution, etc., is computed. Poisson's and Laplace's Equations are derived and discussed. Green's propositions with kindred and similar subjects are considered. *II.*; *M. W. F.*; 6; (3). Mr. BRENKE or Assistant Professor HALL.

*Required:* Mathematics 21.

23. MODERN GEOMETRY.—This course includes, in general, a consideration of homogeneous coördinates, duality, descriptive and metrical properties of curves, anharmonic ratios, homography, involution, projection, theory of correspondence, etc. *I.*; *M., W., F.*; 7; (3). Dr. COAR.

*Required:* Mathematics 8a or 7, 11.

24. ALGEBRAIC SURFACES.—In this course are considered the application of homogeneous coördinates and the theory of invariants to geometry of three dimensions, and also the general theory of surfaces, together with the special properties of surfaces of the third and fourth order. *II.*; *M., W., F.*; 7; (3). Dr. COAR.

*Required:* Mathematics 17, 18.

25. PARTIAL DIFFERENTIAL EQUATIONS.—It deals with the integration and determination of the integration constants of such partial differential equations as arise in the study of such subjects

as the flow of heat, the vibration of strings, plates, etc., and electricity. *II.*; *Tu., Th.*; 7; (2). Associate Professor TOWNSEND.

*Required:* Mathematics 8a or 9, 16.

26. STATISTICAL ADJUSTMENTS.—A course in statistics, theoretical and applied. For the convenience of students, it is given in two parts, of which the first may be taken alone or in connection with the second. The two parts, when taken with zoölogy 12, or economics 23, may be counted as a five-hour course in mathematics.

(a). Theory of Statistical Adjustments.—The general method of statistical investigation, the use and abuse of the arithmetical and the geometrical average, application of averages to tabulation, graphic method of deducing the law of error, interpolation, and the application of the theory of probability to statistics. *II.*; *M., W., Th., F.*; *first 9 weeks*; 2; (2). Mr. MILNE.

*Required:* Mathematics 8a.

(b). Applications.—Applications of the principles developed in (a) to specific problems in economics, biological sciences, etc. *II.*; *M., W., Th., F.*; *last 9 weeks*; 2; (2). Mr. MILNE.

*Required:* Mathematics 8a, 26a.

#### COURSES FOR GRADUATES

Courses 12, 13, 14, 15, 18, 20, 21, 22, 23, 24, 25 and 26 may be counted as graduate work for those students making a major in mathematics.

#### MECHANICAL TECHNOLOGY

See General Engineering Drawing 1b, Civil Eng'g 24, Mech. Eng'g 1, 30, 31, and Ry. Eng'g 9.

#### MECHANICAL ENGINEERING

Professor BRECKENRIDGE, Assistant Professors GOODENOUGH, LEUTWILER and RANDALL, Mr. CURTISS, Mr. JONES, Mr.

WILSON, Mr. SNODGRASS, Mr. SCROGGIN, Mr. HARMAN, Mr. KUSS.

I. SHOP PRACTICE.—The course in shop practice consists of a suitably graded series of exercises, some of which are chosen from parts of machines under construction in the shops. The following is an outline of the work:

(a) Wood Shop, One Semester.—Care and use of tools; exercises in construction of joints; turning; pattern and core-box making.

(b) Foundry, One-half Semester.—Management of the cupola; molding, including the making of dry and green sand cores.

(c) Forge Shop, One-half Semester.—Forging, welding iron and steel; tempering lathe and plane tools; annealing and case-hardening. *I., II.; alternates with G. E. D., 4 sections; 1, 2, 3, 6, 7, 8; (3).* Mr. CURTISS, Mr. WILSON and Mr. JONES.

2. MACHINE SHOP PRACTICE.—Regular lectures are given on the use of tools and on machine shop processes. The character of the work done is indicated in the following outline:

First Semester.—Exercises in chipping and filing; elementary work on lathe, drill press, and shaper.

Second Semester.—Fitting and bench work; advanced work on lathe, planer, shaper, milling machine, grinding machine, screw machine, gear cutter, and boring mill. *Van Dervoort's Modern Machine Shop Tools. I., II.; daily; 1, 2, 3, 6, 7, 8 (divides time with M. E. 4); (2½).* Mr. SCROGGIN, Mr. KUSS.

3. POWER MEASUREMENT.—This course includes a study of the apparatus used in engine and boiler tests—scales, thermometers, indicators, brakes and dynamometers, gauges, calorimeters, etc. The methods of calibrating and using such apparatus are taught. Tests for indicated horse-power are made on steam engines, pumps, and gas engines. Students are required to make reports on all experiments undertaken. *II.; section A1, Tu.; 6, 7, 8; S., 1, 2, 3; section A2, Th.; 6, 7, 8; S., 1, 2, 3; section B1, M., W.; 6, 7, 8; section B2, W., F.; 6, 7, 8; (2).* Assistant Professor RANDALL, Mr. SNODGRASS.

*Required:* Mechanical Engineering 1, 2; Math. 9.

4. ELEMENTS OF MACHINE DESIGN.—The aim of this course is to familiarize the student with machine elements, such as bolts, keys, journals, bearings, couplings, gears, etc. Problems are given requiring simple calculations for strength. Considerable attention is paid to forms of gear teeth and to spur and bevel gears.

Outline of the Subject.—Fastenings; riveted joints and boiler stays; journals, pivots, shafts; bearings; forms of gear teeth; spur gears; bevel gears; cams, stepped cones for open belts; point paths. *Kent's Mechanical Engineer's Pocket-book; also Unwin's Machine*

*Design. I., II.; daily; 1, 2, 3, 6, 7, 8 (divide time with M. E. 2); (2½). Mr. HARMAN.*

*Required: General Engineering Drawing 1.*

5. MECHANISM (Kinematics of Machinery).—The methods of Reuleaux are followed. The following is an outline of the work done: Analysis of mechanisms with tests for constraint; study of plane motion by the method of virtual centers; velocity determinations by the method of velocity images; construction of velocity polygons; geometrical constructions for acceleration; Coriolis' law; acceleration diagrams for steam-engine and quick-return mechanisms; application of kinematic principles to gear trains, cam trains, ball and roller bearings. *Durley's Kinematics of Machines. I.; section A, M.; 6, 7, 8; W., F.; 3; section B, M.; 2, 3, 4; Tu., Th.; 2; (3).* Assistant Professor GOODENOUGH.

*Required: Theoretical and Applied Mechanics 1.*

6. HEAT ENGINES.—The principles of thermodynamics are applied to the study of modern forms of heat engines. Considerable attention is given to Hirn's analysis of the steam engines, and to the temperature-entropy analysis, as applied to steam engines and gas engines. *Reeve's Thermodynamics of Heat Engines. I.; section A, Tu., Th.; 1; section B, Tu., Th.; 3; (2).* Assistant Professor GOODENOUGH.

*Required: Theoretical and Applied Mechanics 1; Physics 1, 3.*

7. THERMODYNAMICS.—This course includes the fundamental laws underlying the transformation of heat into work, the properties of perfect gas, saturated and superheated vapors, including ammonia, and the application of thermodynamic principles to refrigeration, air compression, flow of fluids, the injector, etc. The solution of a large number of problems is required. *I.; section A, M., W.; 1; section B, W., F.; 4; (2).* Assistant Professor GOODENOUGH.

*Required: Math. 9; Theoretical and Applied Mechanics 1 and 3.*

8. MECHANICS OF MACHINERY.—The principles of theoretical mechanics are applied to various classes of machinery. The work is varied from year to year, but includes some of the following topics: Hoisting machinery; air compressors; fans and blowers; pumping machinery; hydraulic machinery; the locomotive; friction in machine parts; governors; balancing of engines. *II.; section A,*



*M., Tu., W., Th.; 1; section B, M., W., F.; 4; Th., 3; (4).* Assistant Professor GOODENOUGH.

*Required:* Theoretical and Applied Mechanics 1, 2, 3; Mechanical Engineering 5, 7, 14.

9. **ADVANCED MACHINE DESIGN.**—In this course three lines of work are undertaken:

(a) **DESIGN OF MACHINE TOOLS**, such as lathes, shapers, slotters and milling machines. The design of attachments to existing machines or the complete design of some machine that can be built in the shops is often a part of this work.

(b) **ORIGINAL DESIGN.**—This includes the design of automatic machines, requiring a considerable invention on the part of the student. Often a single piece is handed to the student and a machine is required that will produce a given number of these pieces per hour.

(c) **ADVANCED DESIGN.**—The design of machinery subjected to heavy and variable stresses, such as punches, shears, presses, riveters, cranes, derricks, heavy pumps and motors.

Study of existing machines is required. The student is taught to consult standard works on machine design, such as *Unwin, Reuleaux*, and *Bach's Maschinenelemente*. *I., section A, Tu., Th.; 6, 7, 8; section B, F.; 1, 2, 3, 6, 7, 8; (2). II.; Th., 6, 7, 8; F.; 1, 2, 3, 6, 7, 8; (3).* Assistant Professor LEUTWILER.

*Required:* Theoretical and Applied Mechanics 1, 2, 3; Mechanical Engineering 1 to 8.

10. **ESTIMATES, SPECIFICATIONS, AND SUPERINTENDENCE.**—Calculations and estimates as to the cost of machinery, power plants, boilers, chimneys, systems of piping, engines and their foundations, different methods of power transmission. Forms of contracts and specifications are studied. *II.; Tu.; 2, 3; (1).* Professor BRECKENRIDGE.

*Required:* Theoretical and Applied Mechanics 1, 2, 3.

12. **ADVANCED MECHANICAL ENGINEERING LABORATORY.**—This course includes experiments on engines, pumps, boilers, injectors, air compressors, hoisting appliances, etc.; also experiments with the transmission dynamometer on the power required by shop machinery. Tests of power plants in the vicinity are made. By special arrangement with the management of the Peoria and Eastern Railroad, the Urbana shops and power plant are made avail-

able for experimental work. The railway test car affords opportunity for tests in the line of railway engineering. In some cases groups of students are assigned advanced constructive work in the shops to impress upon them the intimate relation existing between the shop and designing room. *Carpenter's Experimental Engineering*. I.; section A, M., F.; 2, 3, 4, 6, 7, 8; section B, M.; 2, 3, 4, 6, 7, 8; Tu., Th., 6, 7, 8; (4). II.; section A, M.; 2, 3, 4; section B, M.; 1, 2, 3; (1). Professor BRECKENRIDGE, Assistant Professor RANDALL, and Mr. SNODGRASS.

*Required:* Theoretical and Applied Mechanics 1, 2, 3; Mechanical Engineering 1 to 7.

13. MECHANICAL ENGINEERING LABORATORY.—This is a laboratory course for students in other departments of the College of Engineering. It includes the testing and calibration of instruments and apparatus, use of the indicator, calculation of horse-power and steam consumption, reading of indicator diagrams, and valve setting. II.; section E, M.; 2, 3, 4; F., 6, 7, 8; section F, W.; 2, 3, 4; F., 6, 7, 8; (2). Assistant Professor RANDALL, and Mr. SNODGRASS.

*Required:* Mechanical Engineering 1, 2; Math. 7, 9.

14. HIGH SPEED STEAM ENGINE.—The relations between piston speed, expansion, and mass of reciprocating parts are studied. The student first makes a preliminary design and decides upon the leading dimensions of an engine that will run smoothly under given conditions. He then makes a complete force analysis by the usual approximate methods and also by methods theoretically exact.

Outline of the Subject: Construction of indicator diagrams, effective pressure diagrams, and diagrams of tangential effort; determination of mass of reciprocating parts, and cylinder dimensions; exact constructions for the inertia force of the connecting rod; pin pressure diagrams; diagrams of forces shaking the bed; diagram of resultant pressure on main bearing; valve diagrams. *Klein's High Speed Steam Engine*. I.; section A., Tu., Th., 2, 3; W., 6, 7, 8; section B., Tu., Th., 1, 2; W., 6, 7, 8; (3). Assistant Professor LEUTWILER.

*Required:* Mechanical Engineering 1 to 7, 23, 24; Theoretical and Applied Mechanics 1, 2.

16. STEAM ENGINES.—For students in other departments of the College of Engineering. The following is an outline of the subject: Elementary thermodynamics; construction and operation of

steam engines; valve gears; the indicator and indicator diagrams; compounding, jacketing, and superheating; steam turbines; condensers; steam engine performance. *Ripper's Theory and Practice of the Steam Engines. 1.; section C, Tu., Th.; 3; section D, M., W.; 1; sections E and F, Tu., Th.; 1; (2).* Mr. KUSS.

*Required:* Physics 1, 3; Mathematics 9.

17. STEAM BOILERS.—For students in other departments of the College of Engineering. This course deals chiefly with the construction, erection, operation, and care of steam boilers. *Peabody and Miller's Steam Boilers. II.; sections C and G, W.; 1; section D, Th.; 1; section E, F.; 1; section F, Tu., 1; (1).* Assistant Professor LEUTWILER.

*Required:* Physics 1, 3; Mathematics 9; Chemistry 1.

18. GRAPHIC STATICS OF MECHANISM.—This course is divided into two parts. The first part includes the general principles of graphic statics and the analysis of stresses in cranes and simple trusses. The second part deals with the graphical analysis of machines, taking account of sliding, journal and pivot friction, chain friction, rope stiffness, etc. *Graphical Statics of Mechanism, Herrman-Smith. Hoskin's Graphic Statics. II.; section A, M., W.; 6, 7, 8; section B, M.; 2, 3, 4; Tu., 6, 7, 8; (2).* Mr. KUSS.

*Required:* Theoretical and Applied Mechanics, 1, 2; Mechanical Engineering 5.

19. SEMINARY.—The work of this course supplements the other studies of the senior year. Papers on subjects relating to current engineering practice are read and discussed. Each student subscribes for a technical journal. The indexing of current engineering literature is a part of the work of this course. *I., II.; W.; 2, 3; (1).* Professor BRECKENRIDGE.

20. SHOP PRACTICE FOR SPECIAL STUDENTS.—This course is open to those entering as special students, as defined elsewhere under "Admission." The work done does not count for a credit for graduation in any of the technical courses. *Arrange time.* Mr. SCROGGIN.

21. FORGE SHOP PRACTICE.—This course is designed for students taking the course in Agriculture. Instruction is given in forging, such as will be of use to the practical farmer. The course may be started at the beginning or middle of either semester. *Arrange time at 1, 2, 3, or 6, 7, 8; six hours a week; (2).* Mr. JONES.

22. WOOD SHOP PRACTICE.—This course is intended for students taking the course in Agriculture. Students should arrange with the instructor for nine hours' work each week. *I. or II.; 1, 2, 3, or 6, 7, 8; (3).* Mr. CURTISS.

23. STEAM ENGINES AND VALVE GEARS.—The mechanical features of the steam engine are studied. The course includes the following topics: Properties of steam; steam engine construction; valve gears; mechanics of the governor; fly wheels; inertia of reciprocating parts; tangential effort diagrams; balancing; compound engines. *Ripper's Steam Engine. II.; section A, M.; 2; F.; 6; section B, Tu., F.; 2 (2).* Assistant Professor GOODENOUGH.

*Required:* Theoretical and Applied Mechanics I. Mechanical Engineering 5.

24. STEAM BOILERS.—In this course special attention is given to the design and construction of boilers. The following is an outline of the subject: Types of boilers; riveted joints; staying; usual proportions of boilers; fittings and accessories; fuels, combustion, and firing; incrustation and corrosion; explosions; boiler trials. *Peabody and Miller's Steam Boilers. I.; section A, M.; 3; section B, F.; 3; (1).* Professor BRECKENRIDGE.

*Required:* Theoretical and Applied Mechanics I; Chemistry I.

30. MACHINERY AND MANUFACTURING.—Construction, operation and erection of "form changing machines." A study of machinery that transforms raw material into a finished product. Manufacture vs. building; hand labor vs. automatic machinery; the American system of interchangeable machine parts. *II.; M., W., F.; 4; (3).* Assistant Professor LEUTWILER.

31. GENERATION AND TRANSMISSION OF POWER.—Elementary principles of generation and transmission of power. Applications of power for purposes of agriculture, manufacturing, mining, and transportation on land and water. *II.; M., W., F.; (3).* Professor BRECKENRIDGE.

### COURSES FOR GRADUATES

#### Primary

- 101. Advanced Machine Design.
- 102. Graphics and Kinematics.
- 103. Mill Engineering.
- 104. Steam Engineering.
- 105. Experimental Engineering.

- 106. Thermodynamics.
- 107. Pneumatics.
- 108. Hydraulic Machinery.
- 109. Mechanical Technology.
- 110. Translation of Technical Engineering Work.
- 111. Heat Engines and Gas Engineering.
- 112. Locomotive Engineering.
- 113. Mechanical Refrigeration.

#### Secondary

- 120. Any primary offered in the College of Engineering.  
Primary subjects may be taken as secondary in any course for the master's degree in the College of Engineering.
- 121. Indexing and Classification of Engineering Literature.

### MECHANICS, THEORETICAL AND APPLIED

Professor TALBOT, Assistant Professor McLANE, Mr. SLOCUM, Mr. RICHEY.

1a, b. ANALYTICAL MECHANICS.—The mechanics of engineering, rather than that of astronomy and physics, is here considered. Attention is given to fixing the fundamental concepts and demonstrating the general principles of equilibrium and motion and also to the application of principles and methods to numerous and varied engineering problems. Training in the statement of conditions and in the use of data is given. This subject requires a thorough working knowledge of the mathematics preceding it in the course.

Outline of the subject: Nature and measure of force; composition and resolution of forces; moments; conditions of equilibrium; resultant of systems of forces; center of gravity; moment of inertia; rectilinear and curvilinear motion, and the relation between such motion and the constraining and accelerating forces; dynamics of a rigid body; momentum and impact; work, energy and power; mechanical advantage. *Maurer's Technical Mechanics.* 1a, II.; M.; section A, 1; section B, 2; section C, 6; section D, 8; section E, 7; section F and G, 3; section I, 8; section J, 1; section K, 6; section L, 2; (1). 1b, I.; first 14 weeks; daily; section A, 2; section B, 1; section C, 1; section D, 3; section E, 2; section F, 4; (4). Professor TALBOT, Mr. SLOCUM, and Mr. RICHEY.

*Required:* For 1a, Mathematics 7; for 1b, Mathematics 9 and Theoretical and Applied Mechanics 1a.

2a, b. RESISTANCE OF MATERIALS.—In the treatment of this subject it is the aim to give the student a thorough training in the elementary principles of the mechanics of materials, to follow with such experiments and investigations in the materials laboratory as tend to verify the experimental laws, and to add such problems in ordinary engineering practice as will train the student in the use of his knowledge. Attention is also given to the quality and requirements for structural materials.

Outline of the subject: Elasticity of materials; stresses and strains; experimental laws; working strength for different materials; resistance of pipes and riveted joints; bending and resisting moment, shear, and elastic curve of cantilever, simple, restrained, and continuous beams; column formulas; torsion and shafts; maximum internal stresses in beams; fatigue of metals; working strength for repeated stresses; resilience; reliability of the common theory of flexure, as shown by actual experiment; design and strength of rolled and built beams and columns; specifications for materials and methods of testing. *Merriman's Mechanics of Materials.* 2a, I.; last 4 weeks; Recitations daily; section A, 2; section B, 1; section C, 1; section D, 3; section E, 2; section F, 4; Laboratory, weekly; section A<sub>1</sub>, S.; 1, 2; section A<sub>2</sub>, S.; 3, 4; section B<sub>1</sub>, Tu.; 7, 8; section B<sub>2</sub>, W.; 6, 7; section C<sub>1</sub>, M.; 6, 7; section C<sub>2</sub>, Th.; 6, 7; section C<sub>3</sub>, Th.; 8, 9; section D<sub>1</sub>, W.; 8, 9; section D<sub>2</sub>, F.; 8, 9; section D<sub>3</sub>, M.; 8, 9; section E<sub>1</sub>, W.; 3, 4; section E<sub>2</sub>, F.; 3, 4; section F<sub>1</sub>, M.; 3, 4; section H, F.; 8, 9; (1). 2b, II.; first 7 weeks; Recitations Tu., W., Th., F.; section A, 1; section B, 1; section C, 2; section D, 2; section E, 3; section F, 4; Laboratory weekly; section A<sub>1</sub>, W.; 3, 4; section A<sub>2</sub>, F.; 7, 8; section B<sub>1</sub>, F.; 3, 4; section B<sub>2</sub>, M.; 6, 7; section C<sub>1</sub>, W.; 6, 7; section C<sub>2</sub>, Th.; 6, 7; section D<sub>1</sub>, Tu.; 6, 7; section D<sub>2</sub>, S.; 1, 2; section E<sub>1</sub>, M.; 2, 3; section E<sub>2</sub>, S.; 3, 4; section F<sub>1</sub>, Tu.; 2, 3; section F<sub>2</sub>, Th.; 2, 3; (2). PROFESSOR TALBOT, Mr. SLOCUM, and Mr. RICHEY.

*Required:* Mathematics 9; Theoretical and Applied Mechanics 1.

3. HYDRAULICS.—In hydraulics the instruction is by text-book and laboratory work. The laws of the pressure and the flow of water and its utilization as motive power are considered. Experimental work in the hydraulic laboratory gives training in the observation and measurement of pressure, velocity, and flow, and in the determination of experimental coefficients.

The subject covers the following: Weight and pressure of water; head; center of pressure; velocity and discharge through orifices, weirs, tubes, nozzles, pipes, conduits, canals, and rivers; measurement of pressure velocity, and discharge; meters and measurements; motors, turbines, and water wheels; water power. *Merriman's Hydraulics. II.; last 11 weeks; Recitations Tu., W., Th., F.; section A, 1; section B, 1; section C, 2; section D, 2; section E, 3; section F, 4; Laboratory, weekly; section A<sub>1</sub>, W.; 3, 4; section A<sub>2</sub>, F.; 7, 8; section B<sub>1</sub>, F.; 3, 4; section B<sub>2</sub>, M.; 6, 7; section C<sub>1</sub>, W.; 6, 7; section C<sub>2</sub>, Th.; 6, 7; section D<sub>1</sub>, Tu.; 6, 7; section D<sub>2</sub>, S.; 1, 2; section E<sub>1</sub>, M.; 2, 3; section E<sub>2</sub>, S.; 3, 4; section F<sub>1</sub>, Tu.; 2, 3; section F<sub>2</sub>, Th.; 2, 3; (3).* Professor TALBOT, Mr. SLOCUM, and Mr. RICHEY.

*Required:* Mathematics 9; Theoretical and Applied Mechanics 2.

4. APPLIED MECHANICS.—To be taken instead of Analytical Mechanics. The course of study and topics studied will be nearly identical. *Wright's Mechanics. I.; M., Tu., W., Th.; 1; (4).* Assistant Professor McLANE.

*Required:* Mathematics 6.

5. STRENGTH OF MATERIALS.—To be taken instead of Resistance of Materials. The course of study will be nearly the same, though somewhat simplified. *Merriman's Mechanics of Materials. II.; M., Tu., Th., F.; 3; Laboratory, M. or W.; 8 and 9; (4).* Assistant Professor McLANE.

*Required:* Mathematics 6; Theoretical and Applied Mechanics 4.

6. ENGINEERING MATERIALS.—This course embraces weekly lectures on the properties and requirements for materials used in engineering construction, the effect of methods of manufacture upon the quality of the material, and the specifications and standard tests used to secure acceptable grades of material. *II.; M.; 1; (1).* Professor TALBOT.

*Required:* Registration in Theor. and App. Mechanics 2b.

#### COURSES FOR GRADUATES

101. Analytical Mechanics.
102. Resistance of Materials.
103. Hydraulics and Hydraulic Engineering.
104. Laboratory of Applied Mechanics.

## METEOROLOGY

See under Physical Geography and Geology 14.

## MILITARY SCIENCE

Professor FECHÉT, Mr. McMILLAN, Mr. KNEELAND, Mr. REEF.

1. THEORETICAL INSTRUCTION.—Infantry drill regulations. For all male students. *II.*; (1). Mr. McMILLAN, Mr. KNEELAND, Mr. REEF.

2. PRACTICAL INSTRUCTION.—Infantry.—School of the soldier; company and battalion; evolution of the regiment. Artillery.—School of the cannoneer and battery dismounted. Freshman and sophomore years. *I., II.*; (1). Professor FECHÉT.

3. THEORETICAL INSTRUCTION.—Sophomore, junior, and senior years; one hour each week. Drill regulations, military administration, field engineering, and elements of military science. This course is obligatory upon commissioned officers and sergeants, optional with corporals, and open to others. Professor FECHÉT.

Authorized text-books.—*United States Army Drill Regulations; United States Army Regulations; Manual of Field Engineering (Beach); Elements of Military Science (Wagner).*

## MINERALOGY

See under Geology 5, 6, 7, 10.

## MUNICIPAL AND SANITARY ENGINEERING

Professor TALBOT, Professor BAKER, Professor BURRILL, and Mr. SLOCUM.

1. ROAD ENGINEERING.—The value and importance of road improvement in country highways and the best means of securing it are considered, together with the principles and details of construction of earth, gravel, and macadam roads. In city streets, the methods of construction, cost, durability, and desirability of the various kinds of pavement, and the questions of grades, cross-sections, methods of assessment of cost, and methods of maintenance and cleaning are treated. *Baker's Roads and Pavements. II.*; section C, *Tu., Th.*; 1; section D, *W., F.*; 1; (2). Mr. WEBBER.

*Required:* Mathematics 4; General Engineering Drawing 1, 2; Civil Engineering 1, 2, 3, 4.



2. WATER SUPPLY ENGINEERING.—This subject is intended to cover the principal features of the construction of water works, including the tests and standards of purity of potable water; the choice of source of supply; the designing of the distribution system, pumps and pumping machinery, reservoirs, and stand pipes. *Lectures; Turneure's Public Water Supplies. I.; Tu., W., Th.; 4; Designing; section A, M.; 6, 7, 8; section B, F.; 6, 7, 8; (4).* Professor TALBOT and Mr. SLOCUM.

*Required:* Theoretical and Applied Mechanics 1, 3; Chemistry 1; Mechanical Engineering 16.

3. SEWERAGE.—The design and methods of construction of sewerage systems of cities, including the following: Sanitary necessity of sewerage; water carriage systems, both separate and combined; surveys and general plans; hydraulics of sewers; relation of rainfall to storm water flow, and determination of size and capacity of sewers; house sewage and its removal; form, size, design, and construction of sewers and sewer appurtenances; modern methods of sewage disposal; estimates and specifications. *Lectures; Follwell's Sewerage. II.; W., F.; 4; Designing; section A, M.; 6, 7, 8; section B, F.; 6, 7, 8; (3).* Professor TALBOT and Mr. SLOCUM.

*Required:* Theoretical and Applied Mechanics 1, 3; Chemistry 1.

5a. BACTERIOLOGY.—For students in Municipal Engineering. This course includes the identification and classification of bacteria, and of allied organisms, their relations to health and to disease, the methods of separation and cultivation, and the methods of air and water analysis. The laboratory is furnished with sterilizers, culture ovens, microscopes, etc., and students have abundant opportunity to do practical work. This course follows Civil Engineering 4a. *I.; last 7 weeks; daily; 6, 7; (2).* Professor BURRILL.

6a, b. WATER PURIFICATION, SEWAGE DISPOSAL, AND GENERAL SANITATION.—This work includes the consideration of impurities in water supplies and the study of the methods and processes of their removal; the modern methods of sewage disposal by filtration, chemical precipitation, irrigation, etc., with a study of representative purification plants; garbage collection and disposal; sanitary restrictions and regulations and general sanitation. Lectures and seminary work. *6a, I.; M., F.; 4; (2). 6b, II.; Tu., W., Th.; 3; arrange for drafting period; (3).* Professor TALBOT.

*Required:* Municipal and sanitary Engineering 2, 3, 5a; Chemistry 1, 3a.

**COURSES FOR GRADUATES****Water Supply Engineering**

- 101. Tanks, Stand-Pipes, and Reservoirs.
- 102. Sources and Requirements of Water Supply for a City and Removal of Impurities.
- 103. Water Works Management and Economics.
- 104. Pumps and Pumping.
- 105. General Water Works Construction.
- 106. Biological and Chemical Examination of Potable Water.
- 107. Description of Water Supply Systems.

**Sewerage**

- 111. Sewage Purification.
- 112. Sewage Disposal Works.
- 113. General Sewerage Design and Construction.
- 114. City Sanitation.
- 115. Description of Sewerage Systems.

**Road Engineering**

- 118. Economic Aspect of Good Roads and Pavements.
- 119. Construction of Roads and Pavements.

**MISCELLANEOUS SUBJECTS**

- 121. Critical Description of Engineering Construction.
- 122. Translation of Technical Engineering Work from French or German.
- 123. Any Primary in Civil Engineering.
- 124. Any Primary in Theoretical and Applied Mechanics.
- 125. Any Primary in Mathematics, Mechanical Engineering or Electrical Engineering—Secondary.
- 126. Indexing of Municipal and Sanitary Engineering Literature in Engineering Periodicals.

**MUSIC**

Professor LAWRENCE, Assistant Professor BRENEMAN, Mrs. DANIELS.  
Mrs. BRENEMAN, Miss MANN, Mr. SCHWARTZ, Miss HOWE, Miss GREENE, Mrs. SMITH.

I. HISTORY OF MUSIC.—Lectures on the development of Music, referring especially to the rise of Polyphony and dramatic music, the origin and progress of the Oratorio, the evolution of instru-

ments and instrumental forms, and studies in the lives of composers. Assigned collateral readings. *I. and II.*; (1½). Mr. SCHWARTZ.

2. THEORY OF MUSIC.—Elementary Theory and Ear-training. Four Part Harmony, and Analysis. *I. and II.*; (2). Mr. SCHWARTZ.

3. ADVANCED HARMONY AND ANALYSIS.—*I., II.*; (3½). Mr. SCHWARTZ.

4. COUNTERPOINT, CANON, AND FUGUE.—*I., II.*; (3). Mr. SCHWARTZ.

5. GENERAL THEORY, FREE COMPOSITION.—*I., II.*; (2½). Mr. SCHWARTZ.

NOTE.—Music, 5, I. may be taken with Course 4, II. if desired.

6. COURSE FOR THE PIANO.—*Preparatory*. This course covers three years' work and is required in fulfillment of the six credits prescribed for entrance to the School of Music. The work of each year counts two credits for entrance. It includes formation and position of fingers, hands, wrists, and arms, properties of touch, principles of technique, thorough drill in scale and arpeggio playing, and exercises in accent, rhythm, and expression. Music used:

(a) First Year. National Graded Course. *Bk. 1 or equivalent; Köhler Op. 151*. Miss MANN and Miss HOWE.

(b) Second Year. Music used,—Köhler Op. 50; Leoschorn Op. 65, Bk. 3; Duvernoy Op. 120; Kunz Canons (preparatory to Bach); Czerny Op. 636; Sonatines of Lichner, Berens, Kulau, Clementi, Diabelli, etc. Pieces of same grade. Miss MANN and Miss HOWE.

(c) Third Year.—Gorno Pedal Studies. Czerny Op. 299, Bks. 1 and 2; Wolff Octave Studies. Lawrence; Bach Preparatory Studies. Berens School of Velocity. Heller Studies, Selected easier sonatas of Haydn, Mozart, etc. Miss MANN and Miss HOWE.

7. *Collegiate*. First Year. Studies in development of technique; Czerny, Op. 299, Bks. 3, 4; Czerny, Octave Studies; Cramer, Etudes; Jensen, Etudes; Bach, Little Preludes and Fugues; sonatas of Haydn and Mozart; easier sonatas of Beethoven; Songs without Words, Mendelssohn; compositions (smaller works of Schubert, Raff, Grieg, Chaminade, Moszowski, and others). *I., II.*; (6). Professor LAWRENCE and Mrs. DANIELS.

8. Second Year. Daily technique: Czerny, Op. 740; Mayer's Octave Studies; Pacher, Octave Studies; Bach, Two and Three-Voice Inventions, and French Suites; Sonatas and other composi-

tions of Scarlatti, Beethoven, Schubert, Schumann, Mendelssohn, Weber, Raff, Rubinstein, Saint Saens, Godard, MacDowell, and others. *I., II.; (6)*. Professor LAWRENCE and Mrs. DANIELS.

9. Third Year. Selections: Clementi, Gradus ad Parnassum; Moscheles, Op. 70; Kullak, Seven-Octave Studies, Bk. 2; Bach, English Suites and Well-Tempered Clavichord; Sonatas and concertos by Mendelssohn, Weber, Beethoven, Hummel, etc.; selections from works of Bach, Chopin, Schubert, Schumann, Brassin, Rubinstein, Liszt, Moszkowski, Scharwenka, and other modern composers. *I., II.; (8)*. Professor LAWRENCE and Mrs. DANIELS.

10. Fourth Year. Selections: Octave Studies; Clementi, Gradus, continued; Bach, Well-Tempered Clavichord, continued; Chopin, Etudes; Henselt, Etudes; Rubinstein, Etudes; Sonatas by Beethoven, and concertos and other compositions by the great masters, classic and romantic, both of the older and the more modern schools. *I., II.; (9)*. Professor LAWRENCE and Mrs. DANIELS.

11. COURSE FOR THE VOICE.—Preparatory. Covers three years' work and is required in fulfillment of the six credits prescribed for entrance to the School of Music.

(a) First Year. Exercises for correct breathing and for proper placing of the voice. Randegger's Singing, and Sieber's 36 eight measure Vocalises will be used. Miss GREENE and Mrs. SMITH.

(b) Second Year. Breathing exercises. Tone production. Randegger's Singing. Sieber's 36 eight measure Vocalises; 25 studies from Concone's 50 lessons; simple songs for rhythm, accent, and enunciation. Miss GREENE and Mrs. SMITH.

(c) Third Year. Breathing exercises. Tone production. Randegger's Singing. Concone's 50 lessons completed. Panofka's Op. 85. Songs from Mendelssohn and modern composers. Miss GREENE and Mrs. SMITH.

12. COLLEGIATE. First Year. Tone production. Randegger's Singing continued. 25 and 40 Concone Studies. Sieber's School of Velocity. Songs from Schubert, Franz and modern composers. *I., II.; (6)*. Assistant Professor BRENEMAN, Mrs. BRENEMAN and Miss GREENE.

13. Second Year. Tone production. Sieber's School of Velocity continued. Panofka's studies Op. 81. Songs of German, French, and English composers. Simple selections from operas and oratorios. *I., II.; (6)*. Assistant Professor BRENEMAN and Mrs. BRENEMAN.

14. Third Year. Tone production. Sieber's School of Velocity continued. Bordogni's studies for soprano or tenor. Sieber or Bordese for alto or bass. Selections from oratorios and from French, German, and Italian composers. *I., II.; (8)*. Assistant Professor BRENEMAN and Mrs. BRENEMAN.

15. Fourth Year. Tone production. Lutgen's opera-vocalisen, Bk. 2. Italian, French, and English songs of standard composers. Solos and concerted works from modern and standard operas and oratorios. *I., II.; (9)*. Assistant Professor BRENEMAN and Mrs. BRENEMAN.

16. COURSE FOR VIOLIN.—*Preparatory*. Sitt: Op. 31, No. 1. Schradieck's Scale and Arpeggio Studies commenced; Meerts Elementary Etudes; Sitt: Double Stops, in part. Pieces by Weiss, Sitt, Reinecke, and Pleyel. Mr. SCHWARTZ.

17. *Collegiate*. First Year. Scales and Arpeggios in three Octaves; Sitt, Double Stops, completed. Kreutzer, David Violin School, Vol. II.; Sonatas by Handel and Schubert. Compositions by Dancla, Hauser, and Bohm. *I., II.; (6)*. Mr. SCHWARTZ.

18. Second Year. Scales in octaves and thirds, arpeggios on dominant and diminished seventh chords; David School completed, Fiorillo Etudes, Mozart Sonatas, Concertos by Viotti, Spohr, and others; Concert pieces by Sitt, Spohr, Alard, and others. *I., II.; (6)*. Mr. SCHWARTZ.

19. Third Year. Special technical drill. Meerts Etudes, Rode Caprices, Easier Modern Concertos and Sonatas; Concert pieces by Vieuxtemps, Sarasate, Foote, Cui. *I., II.; (8)*. Mr. SCHWARTZ.

20. Fourth Year. Selected Concert Etudes, Sonatas by Beethoven, Schumann, and Brahms; Various Modern and Classic Concertos. *I., II.; (9)*. Mr. SCHWARTZ.

NOTE.—All collegiate students are permitted to enter classes in which Trios, Quartets, and Quintets, by Beethoven, Mozart, and modern composers are studied. Ensemble and orchestral work is required of all special students who are sufficiently advanced.

21. UNIVERSITY ORCHESTRA.—Two hours' rehearsal once a week throughout the year. *I., II.; (1)*. Professor LAWRENCE.

22. UNIVERSITY CHORAL SOCIETY.—One hour rehearsal once a week throughout the year. *I., II.; (1/2)*. Professor LAWRENCE.

23. EAR-TRAINING CLASSES are provided for all School of Music students. *I., II.* Mrs. SMITH.

24. SIGHT-SINGING CLASSES are open to all University students. *I., II.* Mrs. SMITH.

25. PUBLIC SCHOOL METHODS.—Students are required to complete courses in Music 1, 2, 11, and must pursue work as follows: Two class lessons per week in sight-singing, methods of teaching, and conducting. The methods taught are the so-called "Modern," "Educational", "Natural", "Normal", "Model". A teacher's certificate is granted to all who successfully complete the course. *I.*, *II.* Mrs. SMITH.

## PALEONTOLOGY

See under Geology 1, 9.

## PHILOSOPHY

Professor DANIELS.

1. LOGIC.—The study of terms and propositions from the standpoint of their meaning. Practice in syllogistic reasoning. The last half of the course is devoted to the study of scientific method. *II.*; *M., W., F.*; 8; (3). Professor DANIELS.

*Required:* One year of University work.

2. OUTLINES OF PHILOSOPHY. A general introduction to the study of philosophy. *I.*; *M., W., F.*; 1; (3). Professor DANIELS.

*Required:* Two years of University work.

3. ANCIENT AND MEDIEVAL PHILOSOPHY.—A rapid survey of the development of speculative thought, beginning with the early Greek philosophers and continuing through the mediæval period. *I.*; *Tu., Th.*; 8; (2). Professor DANIELS.

*Required:* Two years of University work.

4. MODERN PHILOSOPHY.—The formation and development of the problems and conceptions in philosophy from Descartes to the present time. Selections from the philosophical masterpieces of this period. Special emphasis is laid upon the philosophy of Kant. *II.*; *M., W., F.*; 1; (3). Professor DANIELS.

*Required:* Two years of University work.

5. ADVANCED PHILOSOPHY.—The seventeenth century philosophy. A critical study of Descartes, Spinoza, and Leibnitz. *I.*; *Tu., Th.*, 7; (2). Professor DANIELS. [Not given in 1904-1905.]

*Required:* Two semesters in philosophy or psychology.

7. HISTORY OF ETHICS.—The elements of ethics theoretical and applied. A survey of various types of ethical theory. *II.*; *M., W., F.*; 7; (3). Professor DANIELS.

*Required:* Two years of University work.

8. ESTHETICS.—A brief history and a critical study of the various theories of the beautiful. Lectures and assigned readings. *II.; Tu.; 8; (1)*. Professor DANIELS. [Not given in 1904-1905.]

*Required:* Two years of University work.

9. POLITICAL ETHICS, HISTORICAL AND APPLIED.—A study of various phases of thought concerning the ethics of social organizations; theories of the nature of the state, including views of the state of nature, of natural law and natural right. A discussion of rights and duties in relation to social institutions; international rights and duties; the ethics of diplomacy. *I.; Tu., Th.; 1; (2)*. Professor DANIELS.

*Required:* Two years of University work.

10. PHILOSOPHIC THOUGHT IN ENGLISH LITERATURE OF THE EIGHTEENTH AND NINETEENTH CENTURIES.—Primarily for students who are specializing or taking major work in English, and open to senior and graduate students only. *I., II.; Th.; 8; (1)*. Professor DANIELS. [Not given in 1904-1905.]

11. PHILOSOPHY OF RELIGION.—The philosophical interpretation of religious consciousness, with reference to the value of a rational view of religious ideas. Open to senior and graduate students only. *I., II.; Tu.; 7; (1)*. Professor DANIELS.

12. THE PHILOSOPHY OF HERBERT SPENCER.—A critical study of his *First Principles and Data of Ethics*. The influence of the theory of evolution upon modern philosophy. Open to senior and graduate students only. *I.; W., F.; 8; (2)*. Professor DANIELS.

*Required:* Psychology 1 or 2, or an elementary course in Philosophy.

13. PHILOSOPHY OF NATURE.—The relation of philosophy to scientific conceptions. Man's place in nature. The relation of mind and body. The views of Clifford, Pearson, Ostwald, and other modern writers. Open to senior and graduate students only. *II.; Tu., Th.; 8; (2)*. Professor DANIELS.

*Required:* Psychology 1 or 2, or an elementary course in Philosophy.

#### COURSES FOR GRADUATES

101. THE PHILOSOPHY OF KANT.

#### PHYSICAL GEOGRAPHY.

PHYSICAL GEOGRAPHY (Geology 8).—Three objects are aimed at in this course, viz: To promote the change in the method of teach-

ing geography so generally advocated in recent years, to provide a rational basis for the study of geographic distribution of animals and plants, to place in their proper light the geographic factors in the history of man and his present well being.

The first part of the semester is devoted to a discussion of the general principles of meteorology, oceanography, and climatology. This is followed by a study of the physical geography of North America and Europe, with reference to the objects named above.

It is assumed that the student has a good understanding of political geography, and of the principles of land development, etc., as set forth in such works as *Davis's*, *Gilbert and Brigham's*, or *Tarr's Physical Geography*. I., II.; M., W., F.; 6 and 7; (3). Professor ROLFE, Mr. MATSON.

For advanced work see under Geology 4, 108.

## PHYSICAL TRAINING 1902-05

Director HUFF, Director CARPENTER, Mr. GILL.

### For Men

1. GYMNASIUM PRACTICE.—Two hours' class-work, or two hours' prescription exercises, each week. *Required of freshmen. Must be taken with course 3.* I., II.; *arrange time*; (½). Director HUFF and Mr. GILL.

2. GYMNASIUM PRACTICE.—Two hours' class-work or two hours' prescription exercises. *With course 4.* I., II.; *arrange time*; (1). Mr. GILL.

*Required:* Physical Training 1 and 3.

3. LECTURES.—Lectures upon bodily health, including such subjects as the bath, sleep, diet, ventilation, clothing, injuries from over-work and study, sedentation, tobacco, alcohol, improper posture, etc. *Once a week. Freshmen are required to attend this course, together with course 1.* I., II.; *arrange time*; (½). Director HUFF.

4. LECTURES.—Muscular form and action, effects of exercise, causation of fatigue, breathlessness, coördination, automatism, deformities, etc. *Once a week in combination with course 2.* I., II.; *arrange time*; (1). Director HUFF.

*Required:* Physical Training 1 and 3.



**For Women**

7. PRACTICE.—Class and prescription exercises in the gymnasium and field. *I., II.; arrange time; (1).* Required of freshmen. Miss CARPENTER.

8. PRACTICE.—*I., II.; (1).* Miss CARPENTER.

Required: Physical Training 7, 9.

9. HYGIENE.—The same as Physiology 6, which see. Required of freshmen. *I.; M.; 9; (1).* Professor KEMP.

## PHYSICS

Professor CARMAN, Assistant Professor KNIPP, Dr. WATSON, Mr. SCHULZ, Mr. SLUSS.

1. GENERAL PHYSICS.—Lectures with class-room demonstrations and recitations. This course is required of students in engineering, and is recommended to students doing major work in physics, chemistry, and mathematics. The laboratory course, Physics 3, is to be taken at the same time. *I., II.; Lectures, M., W.; 4; Quiz, F.; 1, 2, 3 or 4; (2).* Professor CARMAN, Dr. WATSON, and Mr. SCHULZ, Mr. SLUSS.

Required: Mathematics 3 or 4.

2a. GENERAL PHYSICS.—Lectures with class-room demonstrations, recitations, and laboratory exercises. This course is similar to Physics 1 and 3, and is recommended to students taking general courses in science, literature and arts. *I., II.; Lectures, Tu., Th.; 4; Quiz, F.; 6, or an hour to be arranged; Laboratory, 2-4, Sat.; (4).* Professor CARMAN, Dr. WATSON, Mr. SCHULZ, and Mr. SLUSS.

Required: Mathematics 3 or 4.

3. INTRODUCTION TO PHYSICAL MEASUREMENTS.—Laboratory experiments running parallel with the lecture course, Physics 1. The experiments are quantitative, illustrative of lectures and preparatory to more advanced laboratory work. *I., II.; one of the following three-hour periods each week: M., W.; 1-3; Tu., Th.; 2-4; Tu., 7-9; Th.; 6-8; (2).* Dr. WATSON, Mr. SLUSS.

Required: Mathematics 3 or 4.

4. ELECTRICAL AND MAGNETIC MEASUREMENTS.—Recitations and laboratory. The course of recitations and lectures covers the elementary mathematical theory of electrostatics, magnetism, magnetic properties of iron, electrodynamics, and direct, alternating, and poly-phase currents. In the laboratory the standard electrical and mag-

netic measurements are made, the work running parallel with the recitation work. *I.*; *Lecture, Tu., Th.*; 3; *II.*; *Lecture, M.*; 6; *Th.*; 1; *Laboratory, Tu. and W., or Th. and F.*; 6-8; (4). Assistant Professor KNIPP.

The following laboratory courses are offered, to be taken preferably in connection with corresponding theoretical or descriptive courses, 6a-6d:

5a. MECHANICS.—A course in exact measurements of mass, length, volume, density, time, and gravity, using balance, dividing engine, cathetometer, chronograph, etc. *I. or II.*; *arrange time*; (2, 3 or 5). Assistant Professor KNIPP.

*Required:* Physics 1 or 2a and 3.

5b. LIGHT.—Measurements of indices of refraction and wave lengths, using the spectrometer with prisms and grating, the concave grating with its mounting; also the use of the optical bench in experiments in interference; photometric measurements and the use of the spectrum-photometer. *I. or II.*; *arrange time*; (2, 3 or 5). Assistant Professor KNIPP.

*Required:* Physics 1 and 3, or 2a.

5c. ELECTRICITY AND MAGNETISM.—A course of electrical measurements, including experimental work in some of the more recent developments, such as electrical waves and their applications in wireless telegraphy, electrical discharge in gases, etc. *I. or II.*; *arrange time*; (2, 3, or 5). Assistant Professor KNIPP.

*Required:* Physics 1 and 3, or 2a.

5d. HEAT.—Measurements of temperature, heat quantities, etc.; thermal properties of bodies, particularly of gases and vapors. *I. or II.*; *arrange time*; (2, 3 or 5). Assistant Professor KNIPP.

*Required:* Physics 1 and 3, or 2a.

The following courses of recitations and lectures on the theory of physics are offered. A knowledge of the methods of calculus is desired.

6a. MECHANICS AND GENERAL PROPERTIES OF MATTER.—An elementary consideration of kinematics, dynamics, statics, work and energy, together with gravitational attraction and potential. *I.*; *M., W., F.*; 2; (3). Assistant Professor KNIPP.

*Required:* Physics 1 or 2a. Mathematics 9 or 8a desired.

6b. LIGHT.—*Preston's Light. II.*; *Tu., Th.*; 2; (2). Assistant Professor KNIPP.

*Required:* Physics 6a; Mathematics 9 or 8a.

6c. ELECTRICITY AND MAGNETISM.—*J. J. Thomson's Elementary Mathematical Theory. II.; M., W., F.; (3).* Assistant Professor KNIPP.

*Required:* Physics 6a; Mathematics 9 or 8a.

6d. HEAT.—*Preston's Heat. I.; Tu., Th.; (2).* Professor CARMAN and Assistant Professor KNIPP.

*Required:* Mathematics 9 or 8a.

6e. FLUIDS.—An elementary treatment of the phenomena and laws of fluids, with experimental illustrations and problems. The course includes discussions of wave motion in liquids, surface tension and viscosity. *II.; M., W.; 8; (2).* Dr. WATSON.

*Required:* Physics 1; Mathematics 8a or 9.

7. INVESTIGATION OF SPECIAL PROBLEMS.—An advanced course in the laboratory or in design and calculation, in continuation of Physics 4, 5 or 6. A special topic is assigned and worked out with the advice and direction of the professor. The repeating of some classic investigation may be assigned. Among the recent problems were the following designs of pieces of apparatus which were also constructed and calibrated in the department: An inductance without iron, variable continuously from zero to 1.2 henry; an inductor dynamo machine giving a sine wave; an exact potentiometer to measure to 150 volts and also to 150 amperes; two testing tables for standardizing ammeters and voltmeters. *I., II.; arrange time; (3) or (5).* Professor CARMAN and Assistant Professor KNIPP.

*Required:* One semester of physics in advance of Physics 1 and 3.

8. MATHEMATICAL PHYSICS.—Lectures and recitations on special topics in theoretical physics. *I., II.; arrange time; (3).* Professor CARMAN.

*Required:* Physics 6a.

10. INVESTIGATION AND THESIS.—*I., II.; arrange time; (3) or (5).* Professor CARMAN and Assistant Professor KNIPP.

#### COURSES FOR GRADUATES

101. Advanced Physical Measurements and Investigation.

102. Mathematical Physics.

103. Mathematical Theory of Electricity and Magnetism for Engineers.

## PHYSIOLOGY

Professor KEMP, Mr. HAYHURST.

1. MAJOR COURSE.—The work begins with a comprehensive study of the microscopic structure of the tissues in general, and later includes the structure of the organs in particular, with special relation to their functions. The course, together with courses in chemistry recommended for prospective medical students, will complete a thorough study of physiological chemistry, so far as it relates to the normal composition and functions of the organs and excretions. Frequent demonstrations in experimental physiology are given before the class, and the student is required to perform a number of such experiments under the immediate direction of the instructor. In addition, the students, working in small groups, perform assigned experiments. *I., II.; daily; 3, 4; (5)*. Professor KEMP and Mr. HAYHURST.

*Required:* Physics 1, 3; Chemistry 1, 2, 3a, 5a, 9, 9c; Zoölogy 2.

2. ADVANCED COURSE.—Continuation of Physiology 1 through a second year. This course is designed for students who wish to get as thorough a training as possible for the study of medicine, and who can afford to take the full science course at the University leading to the B.S. degree. Lectures, assigned reading, and experiments in the laboratory conducted by the students under the supervision of the instructor. *I., II.; daily; 3, 4; (5)*. Professor KEMP and Mr. HAYHURST.

3. INVESTIGATION AND THESIS.—Every facility and encouragement, so far as the resources of the laboratory permit, are offered to those prepared to avail themselves of these for researches leading to theses for the bachelor's, master's or doctor's degree, or for carrying on original work for publication.

4. MINOR COURSE.—Especial emphasis is laid upon those facts that serve as a basis for practical hygiene, and for helping students to teach physiology in high schools. Lecture demonstrations, recitations, and laboratory work. Students who have had chemistry and zoölogy in high schools may be admitted to the course at the option of the instructor. *II.; daily; 7, 8; (5)*. Professor KEMP and Mr. HAYHURST.

*Required:* Chemistry 1; Zoölogy 10.

5. SPECIAL PHYSIOLOGY.—There are here included the following lines of laboratory work, any one or more of which may be pur-

sued independently of the others: (a) The physiology of foods, and digestion; (b) the blood, circulation, and respiration; (c) the excretions, especially urine analysis; (d) general physiology of nerve and muscle; (e) advanced vertebrate, especially human, histology; (f) special work with simple apparatus to train the student in methods of demonstration for prospective high-school teachers. This course may be taken after physiology 4, and is recommended for those who wish to work a year in physiology without having the requirements to enter the class in physiology 1. It may also be taken for less than five credits. Work to be arranged after consultation with Professor KEMP and Mr. HAYHURST.

6. HYGIENE.—This course is offered to both men and women, and must be taken by young women who take physical training for credit. The course deals with those practical hygienic problems of everyday life that are wholly or in large part under the control of each individual. *I.; M.; 9; (1)*. Professor KEMP and Mr. HAYHURST.

## PSYCHOLOGY

Professor DEXTER and Assistant Professor COLVIN.\*

1. ELEMENTARY PSYCHOLOGY.—This course is intended for beginners in psychology. James' Psychology is used as a text. *I.; M., W., F.; 2; (3)*. Assistant Professor COLVIN.

*Required:* At least one year of University work.

2. INTRODUCTION TO PSYCHOLOGY.—The object of this course is to give the student a complete though tentative system of psychology based upon the results of experimental investigation. *II.; M., W., F.; 2; (3)*. Assistant Professor COLVIN.

*Required:* At least one year of University work.

3. EXPERIMENTAL PSYCHOLOGY.—The object of this course is to train the student in laboratory methods and give him an acquaintance with normal psychical phenomena. *I.; Lectures, M., W.; arrange time for laboratory; (5)*. Professor DEXTER and Dr. MINER.

*Required:* Psychology 1 or 2, and a familiarity with laboratory method, gained through a laboratory course in some other department.

4. EXPERIMENTAL PSYCHOLOGY.—This is a continuation of

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\*On leave of absence for year 1903-04. Courses taken by Dr. J. B. Miner.

course 3. The laboratory method is continued in the study of the higher psychic activities. The work is especially adapted to the needs of the teacher. *II.; Lectures, M., W.; 4; arrange time for laboratory; (5).* Assistant Professor COLVIN.

*Required:* Same as Psychology 3.

5. GENETIC PSYCHOLOGY.—The more substantial results of child study serve as a basis for the first part of the course, while the latter part is devoted to the phenomena of adolescence, and the intellectual problems confronting the youth. The development of the nervous system and growth of the body are traced in connection with the mental development. *I.; Tu., Th.; 3; (3).* Assistant Professor COLVIN.

*Required:* Two years of University work.

6. COMPARATIVE PSYCHOLOGY.—It is the aim of this course to trace the evolution of intelligence in connection with that of the nervous system from the lowest forms of animal life to that of man. The psychology of the higher vertebrates will be particularly studied and compared with that of the child and adult. *I.; Tu., Th.; 4; (2).* Assistant Professor COLVIN.

*Required:* Psychology 1 or 2.

7. PSYCHOLOGICAL SEMINARY.—During the current year the history of psychology is the subject of investigation. *I., II.; arrange time; (1).* Assistant Professor COLVIN.

*Required:* Psychology 1 or 2.

8. THE PSYCHOLOGY OF THE EMOTIONS AND THE WILL.—This course considers critically the principal phenomena of volition and feeling as distinguished from those of the intellect. Illustrations will be taken largely from biography, history, and literature. *II.; Tu., Th.; 2; (2).* Assistant Professor COLVIN.

*Required:* Psychology 1 or 2.

## RAILWAY ENGINEERING

[For instructors see Mechanical Engineering.]

1. LOCOMOTIVE ENGINES.—This work is a study of the constructive features of the locomotive in all its parts and of their relations. The development, applications, and limitations of the various types and their special study with reference to the relations between boiler and cylinder capacity, weight on drivers, speed, hauling capacity, etc. Tendencies in design. Includes also a study of all ac-

cessory apparatus used in the operation of locomotives. *I.*; *Tu.*, *Th.*; 1; (2). Mr. SNODGRASS.

*Required:* Theoretical and Applied Mechanics 1, Physics 1, 3; Mechanical Engineering 7.

2. LOCOMOTIVE ENGINE DESIGN.—The proportions and dimensions of standard locomotives are studied. Calculations and designs relating to boiler and engine details, cylinder proportions for compound types of slide valves, and valve gears. *I.*; *Tu.*, *Th.*; 2, 3; *W.*; 6, 7, 8; (3). Assistant Professor LEUTWILER.

*Required:* Mechanical Engineering 1 to 7, 23, 24; Theoretical and Applied Mechanics 1, 2.

3. SHOP SYSTEMS.—Lectures and readings. Visits of inspection. A study of the proceedings of the societies and railway clubs and the technical press. *I.*; *Tu.*, *Th.*; 6, 7, 8; (2). Mr. SNODGRASS.

4. LOCOMOTIVE ROAD TESTS.—Arrangements for locomotive road tests have been perfected with several roads entering Champaign and Urbana. Already five locomotives have been equipped for this work and tests made in actual service conditions. This work is greatly facilitated by the use of the dynamometer and railway test cars which are now at the service of the department. This course includes also brake tests and other laboratory work. *I.*; *M. F.*; (4). Mr. SNODGRASS.

*Required:* Theoretical and Applied Mechanics 3; Mechanical Engineering 1 to 7, 14.

5. COMPRESSED AIR IN RAILWAY SERVICE.—This will include a careful study of the construction and operation of the air-brake system in detail. The air-brake instruction cars of the I. C. R. R. and the C. C. C. & St. Louis Ry. make frequent stops at these points, and the instructors in charge kindly devote sufficient time to illustrate and explain the operation of the air-brake. The use of compressed air in shop service is also studied. *II.*; *Th.*; 2; (1). Mr. SNODGRASS.

*Required:* Mechanical Engineering 7.

6. RAILWAY ESTIMATES.—A study of costs of materials and repairs. Forms of specifications for supplies. Costs of operation and maintenance of foreign and American practice compared. *II.*; *Tu.*; 2, 3; (1). Professor BRECKENRIDGE.

*Required:* Railway Engineering 1 to 4.

7. ADVANCED DESIGNING.—Under this head attention will be paid to details of rolling stock, pumps, gas and oil engines for water supply. Special machinery for repair shop service, turntables, and

advanced problems relating to locomotive design. *II.*; *Tu., W., Th.*; 6, 7, 8; (3). Assistant Professor LEUTWILER.

*Required:* Theoretical and Applied Mechanics 1, 2, 3; Railway Engineering 1, 4.

8. DYNAMOMETER CAR TESTS.—Investigations will be made under actual road conditions relating to hauling capacity of engines, train resistance due to acceleration, grades, curves, and wind pressure. Air-brake service inspections. Automatic records of track conditions as to gauge, surface, joints, and elevation of rails. Tests at stationary plants and railway shops will be made.

Arrangements for careful and scientific sampling of fuels, boiler waters, oils, paints, varnishes, and railway supplies for analysis and tests will be included in this work. *II.*; *F.*; 1, 2, 3; (1). Mr. SNODGRASS.

*Required:* Railway Engineering 4.

9. LOCOMOTIVES AND STEAM RAILWAYS, ELECTRIC RAILWAYS.—General treatment, giving peculiar adaptations and limitations of steam and electric roads; their adoption as determined by character of country or service and distance. Probable future changes in the latter; essential differences in operation. *I.*; *Tu., Th.*; (2). Mr. SNODGRASS.

## RHETORIC AND ORATORY

Professor CLARK, Assistant Professors FULTON and BALDWIN, Miss KYLE, Mr. FOX, Mr. PAUL, Miss TAYLOR, Mr. FULTON, Mr. ADAMS.

1. RHETORIC AND THEMES.—Required for students in the College of Literature and Arts. *Pearson's English Composition; Cairns' Forms of Discourse.* *I., II.*; *M., W., F.*; section *A, 1; B, 1; C, 2; D, 3; E, 4; F, 2; Tu., Th., F.*; *G, 6*; (3). Assistant Professors FULTON and BALDWIN, Miss KYLE, Mr. FOX, Miss TAYLOR.

2. RHETORIC AND THEMES.—Required for students in the Colleges of Agriculture, Science, and Engineering. *Pearson's English Composition; Cairns' Forms of Discourse.* *I., II.*; *M., W., F.*; sections *A, B, C, 2; D, E, F, 3; G, H, 6; I, J, K, L, 7; M, 8.* Assistant Professor FULTON, Miss KYLE, Mr. FOX, Miss TAYLOR, Mr. FULTON, Mr. ADAMS.

3. DAILY THEMES.—*Wendell's English Composition; Bates's Talks on Writing English, second series.* *I., II.*; *M., W., F.*; section *A, 3; section B, 4*; (4). Professor CLARK.

*Required:* Rhetoric and Oratory 1 or 2.



4. ARGUMENTATION.—*Alden, The Art of Debate. I.; M., W., F.; section A, 4; section B, arrange; (3).* Mr. ADAMS.

*Required:* Rhetoric and Oratory 1 or 2, and 7.

5. ORAL DISCUSSION.—Discussion without notes of present day economic and political subjects; criticism of form, delivery, and subject-matter. *I., II.; Th.; 8; (1).* Mr. ADAMS.

*Required:* Rhetoric and Oratory 1 or 2.

6a. ENGLISH COMPOSITION (Advanced Course).—*Bates's Talks on Writing English. I.; Tu., Th.; 3; (3).* Assistant Professor FULTON.

*Required:* Rhetoric and Oratory 1 and 3.

6b. ENGLISH COMPOSITION AND LITERATURE.—The study of rhetorical principles, as seen in literary masterpieces. In 1904-'05. The essays of Lamb, Newman, Arnold, Pater and others will be studied and analyzed; in 1905-'06 the essays of Carlyle, Macaulay, De Quincey, Stevenson, and others. Two three-page themes a week and two long exercises a semester. Students may elect this course in two successive years and receive credit for it twice. *II.; Tu., Th.; 3; (3).* Assistant Professor FULTON.

*Required:* Rhetoric and Oratory 1 and 3.

7. PUBLIC SPEAKING.—A course for practical training in public speaking. *I., II.; section A, M., W.; 7; section B, Tu., Th.; 7; section C, Tu., Th.; 6; (2).* Mr. ADAMS.

8. SEMINARY.—Methods of teaching English composition. Open to senior and graduate students. *I. or II.; W.; arrange time; (1).* Assistant Professor FULTON.

9. DRAMATIC READING.—Critical study and presentation of two of Shakspeare's plays. Selection is made from the following plays: *Macbeth, Othello, Julius Cæsar, Hamlet, Merchant of Venice, Much Ado About Nothing, and As You Like It. I.; Tu., Th.; 2; (2).* Mr. ADAMS.

*Required:* One semester of Rhetoric and Oratory 7.

10. BUSINESS WRITING.—Business Correspondence, the making of summaries and abstracts, advertising, proof reading, and the preparation of manuscript for the press. *I., II.; Tu., Th.; 4; (2).* Mr. PAUL.

*Required:* Rhetoric and Oratory 1 or 2. (Open only to students in business courses.)

11. COMPOSITION AND LITERATURE.—For students in the College of Engineering who elect English as their language. The course

will be about equally divided between composition and English prose literature. *II.; M., W., F.; 2; (3)*. Mr. FULTON.

12. NEWSPAPER WRITING: THEORY AND PRACTICE.—Lectures, discussions, and practical work. The aim is to give, on the side of theory, an insight into the history of the newspaper and the aims and ideals of modern journalism, and on the side of practice to give exercise, under criticism, in the more typical forms of newspaper writing. *I.; Tu., Th.; 3; (2)*. Mr. FULTON.

*Required:* Rhetoric and Oratory 1 or 2.

13. PRACTICAL DEBATING.—Students who wish to take part in any of the inter-collegiate debates should register in this course if they wish to receive credit for their work. *I. or II.; three meetings a week; arrange time; (1 to 2)*. Mr. ADAMS.

### SOCIOLOGY

See Economics 15, 17, English 19, Anthropology 1, 2.

### SPANISH

Professor OLIVER.

1. ELEMENTARY COURSE.—Spanish grammar and reading. Composition. *I., II.; M., W., F.; 2; (3)*. Professor OLIVER.

### THEORETICAL AND APPLIED MECHANICS

See Mechanics (p. 265).

### THREMMATOLOGY

Professor DAVENPORT.

1. APPLIED EVOLUTION.—The principles of evolution as applied to the improvement of domesticated animals and plants. Variation, its extent and causes. Selection and its effect in changing type, as illustrated both in nature and in domestication. The nature of heredity and the manner of its operation under the influence of environment. Reflex action, habit, and instinct, as bearing upon the question of the inheritance of acquired characters. The origin, correlation, and disappearance of characters. The laws of frequency and regression as bearing upon achievements that may be confidently expected. *I.; daily; 4; (5)*. Professor DAVENPORT.

*Required:* Two years of University work.

2. INVESTIGATION AND THESIS. *I., or II.; (5)*. Professor DAVENPORT.

## VETERINARY SCIENCE

Professor McINTOSH.

2. VETERINARY MATERIA MEDICA.—This subject, which treats of the agents for the cure of disease or injury, and for the preservation of health among domestic animals, is taught by lectures and text-books, illustrated by specimens of the drugs used in veterinary practice. The compounding of medicines also receives attention. Text-book, *Finlay Dun's Veterinary Materia Medica. I., II.; daily; 3; (5).* Professor McINTOSH.

4. ANATOMY, PHYSIOLOGY AND DISEASES OF THE DOMESTIC ANIMALS.—The subjects taught during the first semester are the outlines of veterinary anatomy, physiology and diseases of the digestive organs, respiratory organs, the organs of circulation, the lymphatic system, the urinary organs, the skin, tumors and the nervous system. *I.; daily; section A, 2; section B, 4; (5).*

5. ANATOMY, PHYSIOLOGY AND DISEASES OF THE DOMESTIC ANIMALS.—The subjects taught during the second semester are the anatomy, physiology and diseases of the bones and joints, feet, wounds, eye, and generative system. Epizootic and contagious diseases, catarrhal fevers, pyemia, septicemia, rheumatism, tuberculosis, fistula, poll-evil and the internal parasites of the domestic animals. *II., daily; section A, 2; section B, 4; (5).*

## ZOOLOGY

Professor FORBES, Assistant Professor SMITH, Dr. PETERS and Mr. BALLARD.

1. INVERTEBRATE ZOÖLOGY.—This course is largely given to the study of common inveterate animals of Illinois, with special attention to their distribution, habits, life histories, and adaptive structures. A few type forms are studied additional to those of Zoölogy 10. Field work and its methods are included in the course, the work of which is adapted throughout to the needs of prospective teachers. *I.; lecture, M., W., F.; 4; laboratory, 7 periods; 3 and 4; (5).* Professor FORBES.

*Required:* Art and Design 1; an entrance credit in chemistry or Chemistry 1; Zoölogy 10.

2. VERTEBRATE ZOÖLOGY AND COMPARATIVE ANATOMY.—In the laboratory work of this course principal attention will be given to the anatomy of Necturus and to anatomical and systematic studies

of fishes, birds, and mammals, especial reference being had to the anatomy of man. The more difficult parts of laboratory technology will be given in this course, which will also contain lectures on the general theory of organic development as illustrated by the doctrine of the descent of man. *II.; lecture, M., W., F.; 2; laboratory, 7 periods; 1, 2; (5).* Assistant Professor SMITH and Dr. PETERS.

*Required:* The same as for Zoölogy 1.

3. VERTEBRATE EMBRYOLOGY.—This course begins with a study of the sex cells and a discussion of theories of heredity, followed by a consideration of the early stages in the development of the egg. The formation of the vertebrate body is then studied in the amphibian, the chick, and the pig. Instruction is given in the preparation of embryological material and in graphic reconstruction from serial sections. *I., II.; M., W., F.; 3, 4; (3).* Dr. PETERS.

8. THESIS INVESTIGATION.—Candidates for graduation who select a zoölogical subject as a thesis are required to spend three hours a day during their senior year in making a detailed investigation of the selected subjects. While this work is done under the general supervision of an instructor, it is in its methods and responsibilities essentially original work. *I., II.; arrange time; (5).* Professor FORBES, Assistant Professor SMITH and Dr. PETERS.

*Required:* Two years in zoölogical courses.

9. TEACHER'S COURSE IN ZOÖLOGY.—Offered especially to prospective teachers of zoölogy in high schools. Includes work in the field, laboratory and library, the management of excursions, the collection and preparation of material, the selection, assignment, and management of subjects for individual study, and the determination and study of the animal forms of a restricted locality. High school courses of zoölogical study will be collected, compared, and criticised, and methods of management and instruction in secondary schools will be compared and discussed with reference to general pedagogical theory and to the special ends of the teacher of zoölogy. *II.; arrange time; (3).* Professor FORBES.

*Required:* Zoölogy 1, also Zoölogy 2, or Entomology 2 or 3.

10. INTRODUCTORY ZOÖLOGY.—This is a laboratory and lecture course, mainly on the morphology, physiology, and oecology of type forms, and on the more important features of cytology and development. The work leads to an acquaintance with the simpler generalizations of zoölogical theory, and is intended especially as a preparation for courses 1 and 2. Students who present an entrance

credit in zoölogy or biology may take as a fractional course those parts of this work not covered in their previous study. *I.*; lecture, *M., W., F.*; 2; laboratory, 7 periods; 1, 2 or 6, 7; (5); or *II.*; 6, 7; (5). Assistant Professor SMITH, Dr. PETERS, and Mr. BALLARD.

II. GENERAL ZOÖLOGY.—This course is especially designed for students in the College of Literature and Arts who do not intend taking more than one year's work in zoölogy. The chief aim will be to give such important facts and generalizations as can be made intelligible in a brief course. The laboratory work will be planned to serve as a partial basis for lectures and reference reading on facts and theories of organic evolution with the related topics of variation and heredity. This course is not adapted to serve as an introductory course in zoölogy nor as a preparation for teaching. *I., II.*; *M., W.*; 6, 7; (2). Assistant Professor SMITH and Dr. PETERS.

*Required:* At least one year of University work.

12. STATISTICAL ZOÖLOGY.—This course is offered for students taking Mathematics 26. It includes lectures and reference reading on the application of statistical methods to biological problems. The history of the development of this mode of biological investigation, the nature of the problems to which it is applicable and some of the results already obtained in the study of variations, heredity, distribution and phylogeny are among the topics considered. Students taking this course, together with Mathematics 26b, ordinarily use for the problems of the latter course, zoölogical data that have been obtained either by their own observations or from other sources. If desired the combined credits of this course and Mathematics 26 may be counted as 5 credits either in zoölogy or in mathematics. *II.*; *Tu.*; 2; (1 or 5). Assistant Professor SMITH.

*Required:* Mathematics 2, 4, 6, 8a, and at least ten hours of University work in Zoölogy or in Zoölogy and Entomology.

14. GERMAN READINGS.—A study of zoölogical literature in German intended to give technical information and practice of accurate and rapid reading. This course, together with botany 13, will be accepted instead of German 6 of the prescribed list of all except students in chemistry and chemical engineering. *I., II.*; *arrange time*; (2). Assistant Professor HOTTES.

*Required:* German 4.

15. VARIATION AND HEREDITY.—A course of lectures and reference reading designed to give a general survey of the results

obtained by the application of modern statistical methods in the study of variation and heredity. A knowledge of the methods is acquired from lectures and from exercises in handling data gathered from various sources. Mendel's principles and the theory of mutations are discussed. For accompanying laboratory work see 5a. *II.*; *arrange time*; (2). Assistant Professor SMITH.

*Required:* Zoölogy 10 or 11. [Not offered in 1905.]

15a. STATISTICAL DATA.—Laboratory work involving the collection of data suitable for a study of the variations and correlations of structures in some suitable organism may be elected in connection with course 5. The extensive collections of insects, fishes and plankton material in the possession of the State Laboratory of Natural History are available for the purposes of this course. *II.*; *arrange time*; (1 to 3). Assistant Professor SMITH.

*Required:* Zoölogy 10 or 11. [Not offered in 1905.]

16. EXPERIMENTAL AND PHYSIOLOGICAL ZOÖLOGY.—General physiological and morphological processes will be studied from the standpoint of the cell as seen in its growth, division, differentiation, and movements. The external factors to be considered will include water, salts, certain gases, mechanical agents, gravity, heat, light, electricity, and special attention will be given to osmotic pressure and ion physiology. The internal processes of the cell will be analyzed, when possible, into physical and chemical elements. In experimental morphology attention will be given to artificial fertilization, parthenogenesis, and the development of eggs and embryos under experimental conditions.

The laboratory exercises will consist first, in the repetition of well-established experiments, and secondly, in work on special problems. It is intended to give a training in the experimental method for advanced students, teachers, and prospective investigators. Problems for investigation will be indicated which may be undertaken by any who are competent. The objects receiving chief attention will be invertebrates and free-living cells. *I., II.*; *Tu., Th.*; 3, 4; (2). Dr. PETERS.

*Required:* Zoölogy 10 or 11; Chemistry 1 or its equivalent.

17. FIELD ZOÖLOGY.—A course in which the main object will be to gain as comprehensive a knowledge as practicable of the animal life of a restricted locality. Collection, preservation, and identification of various kinds of animals, together with observations of the habits, life histories, and relations to environment of

selected forms, will constitute the major part of the work. The phases of the subject receiving most attention will vary with the make-up of the class and with the kind of locality selected, but in any event the work will be so planned as to make it a desirable course for prospective teachers of zoölogy. *II.; arrange time; (3).*  
Assistant Professor SMITH.

*Required:* Zoölogy 10 or 11, and 1 or 2.

#### COURSES FOR GRADUATES

Zoölogy 2,\* 8, 12, 15, 16, and 17 may be taken for undergraduate or graduate credit; and the following for graduate credit only:

101. PLANKTON ZOÖLOGY.—Instruction and practice will be given in modern methods of studying minute forms of aquatic life with the aid of a plankton apparatus and laboratory equipment. This work includes both a qualitative and a quantitative investigation of the minute zoölogical contents of a selected body of water, carried on systematically through a considerable period, and the generalization of the results of such study by the methods peculiar to the planktologist.

102. FRESH-WATER ICHTHYOLOGY.—The large collections of fishes belonging to the University and the State Laboratory of Natural History, together with the ichthyological library of the latter, are open to students who wish to become acquainted with the ichthyology of a fresh-water situation. Both qualitative and quantitative studies of the fishes of a selected body of water are made, and papers written presenting the results of personal studies in this field.

103. FRESH-WATER AND TERRESTRIAL ANNELIDS.—This is an application of the methods of the zoölogical laboratory to the study of the annelid worms of the land and the inland waters of North America. The description of genera and species, practice in drawing for publication, and experimental work on the physiology and oecology of selected forms will be included.

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\* Open as a graduate course only to those who have had zoology 1 or its equivalent.

# DEGREES

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## BACHELORS' DEGREES

The usual bachelors' degrees are conferred upon those who satisfactorily complete the courses of study described under the different colleges and schools. A candidate for a bachelor's degree must pass in the subjects marked *prescribed* in his chosen course, and must conform to the directions given in connection with that course in regard to electives. In the College of Literature and Arts, of Science, and of Agriculture, credit for 130 hours is required for graduation. In the College of Engineering, in the College of Law, and in the Schools of Music and Library Science the candidate must complete the course of study as laid down. The number of hours required includes five in military drill and tactics, and two in physical training, for men, and three in physical training for women. Men excused from the military requirements, and women who do not take courses in physical training, must elect in lieu thereof an equivalent number of hours in other subjects.

In all cases in which a thesis is required,\* the subject must be announced not later than the first Monday in November, and the completed thesis must be submitted to the dean of the proper college by June 1st. The work must be done under the direction of the professor in whose department the subject naturally belongs, and must be in the line of the course of study for which a degree is expected. The thesis must be presented upon regulation paper, and will be deposited in the library of the University.

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\* See requirements for graduation in the different colleges.



1. The degree of Bachelor of Arts is conferred on those who complete a course in the College of Literature and Arts, or of Science.

2. The degree of Bachelor of Science is conferred on those who complete a course in the College of Engineering, or of Agriculture. This degree may be conferred on a graduate of the College of Science on recommendation of the Faculty, as announced on p. 109. The name of the course is inserted in the diploma.

3. The degree of Bachelor of Laws is conferred on those who complete the course in the College of Law.

4. The degree of Doctor of Medicine is conferred on those who complete the course in the College of Medicine.

5. The degree of Bachelor of Library Science is conferred on those who complete the course in the School of Library Science.

6. The degree of Bachelor of Music is conferred on those who complete one of the courses of the School of Music.

7. The degree of Graduate in Pharmacy is conferred on those who complete the course in the School of Pharmacy.

8. The degree of Doctor of Dental Surgery is conferred on those who complete the course in the College of Dentistry.

#### ADVANCED DEGREES

No degrees are given for study *in absentia*, except that graduates of this University, who become members of the Graduate School and reside elsewhere, may receive a master's degree upon the completion of their courses of study within not less than three years of the date of registration. Advanced degrees are conferred by the Trustees of the University only upon recommendation of the Senate, based upon information furnished by the Council of Administration.

## SECOND DEGREES

The second degrees conferred by this University are as follows:

*Master of Arts* after Bachelor of Arts.

*Master of Science* after Bachelor of Science in courses in the colleges of Agriculture and Science.

*Master of Architecture* after Bachelor of Science in courses of Architecture and Architectural Engineering.

*Civil Engineer* after Bachelor of Science in the course of Civil Engineering.

*Electrical Engineer* after Bachelor of Science in the course in Electrical Engineering.

*Mechanical Engineer* after Bachelor of Science in the course in Mechanical Engineering.

*Pharmaceutical Chemist* after Graduate in Pharmacy.

Graduates of other colleges and universities which have equivalent requirements for baccalaureate degrees may be given second degrees determined in kind by comparison with the usage described above.

All candidates for second degrees are required to register in the Graduate School, to conform to the conditions outlined under "Admission and Registration," and "Studies and Examinations" (pp. 70 and 71); to pursue an approved course of study for one academic year in residence, or, in the case of graduates of this University, for three years *in absentia*; and to pass satisfactory examinations upon all the studies of the approved course.

Each candidate for a second degree must present an acceptable thesis in the line of his major subject of study. The subject of this thesis must be announced to the Dean of the Graduate School not later than the first Monday in November of the academic year in which the course is to be completed. The completed thesis, upon regulation paper, must be presented, with the certified approval of the pro-

fessor in charge, to the Council of Administration not later than June 1st.

*The period of required study begins from the date of registration in the Graduate School.*

#### DOCTOR'S DEGREE

The Degree of Doctor of Philosophy may be conferred upon any member of the Graduate School of not less than three years' standing who shall have reached high attainments in scholarship, including a sufficient knowledge of the French and German languages to serve the purposes of research in his principal specialty, who shall have shown marked ability in some line of literary or scientific investigation, and shall have presented a thesis giving clear indications of such scholarship and of such power of research. At least the first two, or the last one, of the three years of study must be in residence at the University, and the entire course of study must be in accordance with the regulations of the Graduate School.

The time and study required for a master's degree may be included in the three years required, but approval of a course of study for a doctor's degree must be upon the condition that the candidate is prepared through his baccalaureate work, or otherwise, to enter at once upon advanced studies in the line of his major subject, and that work on this major subject be continued through the three years.

The final examination of a candidate for the doctor's degree is conducted by a committee consisting of the head of the department under which the major subject has been pursued, as chairman, and of not less than two additional members of the Senate of the University, appointed for the purpose by the Council of Administration. This examination covers the subjects of the course approved for the degree, but is especially searching upon that on which the major work has been done.

Each candidate for a doctor's degree must announce to

the Dean of the Graduate School a thesis subject not later than the first Monday in November of the academic year at the close of which the award of the degree is expected. A fair copy of the thesis must be submitted, with a certified approval of the committee on examinations, to the Council of Administration not later than the first day of June. If the thesis is approved by the Council the candidate must have it printed and must deposit not less than one hundred copies with the librarian of the University.

### FELLOWSHIPS

The Trustees of the University have established eight fellowships, each with a stipend of three hundred dollars, payable in ten monthly installments.

The rules governing appointments to these fellowships are as follows:

1. The purpose of these fellowships shall be to promote advanced scholarship and original research in the University.

2. The fellowships shall be open to graduates of this and similar institutions. Those who are to complete an under-graduate course previous to the academic year for which appointments are made shall be eligible, with others, as candidates.

3. Nominations to fellowships, accompanied by assignments to special departments of the University, shall be made by the Council of Administration to the Trustees of the University, upon applications received by the President of the University each year not later than the first day of February. These nominations shall be made at a meeting of the Council called for that purpose within the month of February. The appointments by the Trustees are made at their regular meeting in March, and shall take effect the first day of the following September. Vacancies may be filled by similar nominations and appointments at other times.

4. Nominations to fellowships shall be made upon the grounds of worthiness of character, scholastic attainments, and promise of success in the principal line of study or research to which the candidate proposes to devote himself. Consideration shall also be given to the probable value or usefulness of the services of the candidate as an assistant in instruction, but this shall not be deemed the primary object of the appointment. Other things being equal, preference is given to those graduates of this University who have pursued a specialized or group course.\*

5. Candidates must present, with their applications, full information concerning themselves and their qualifications for advanced study and research work, including any written or printed essays or results of investigation, and must name the subject in which they wish to do their major work.

6. Fellowships are good for one year, but appointments may be renewed to the same person. An appointment as *honorary fellow*, without stipend, may be made as specified for paid fellowships in the case of anyone who has held a regular fellowship and has shown distinguished merit in his work.

7. Fellows shall be constituted members of the Graduate School, shall have all of the privileges and bear all of the responsibilities of such membership. Each regular fellow may be called upon to render service in instruction throughout the year in the department in which his major subject lies, equal to one hour daily of class instruction or to two hours daily of laboratory supervision. This service will receive such credit as the Council of Administration may determine in each case. Blank forms for application may be obtained by addressing the Registrar, or the Dean of the Graduate School.

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\*See pp. 78, 107. All members of the College of Engineering and of Agriculture, of the chemical and mathematical groups in the College of Science, of the College of Law, and of the Schools of Library Science and Music, are considered as pursuing specialized courses.

## SCHOLARSHIPS

## STATE

A law passed by the General Assembly of the State of Illinois at the session of 1895 provides that there may be awarded annually to each county of the state one state scholarship and one additional scholarship for each senatorial district in excess of one in any county. The holder thereof must be a resident of the senatorial district to which he is accredited, and is entitled to free tuition in other than the preparatory and professional schools of the University.

A competitive examination under the direction of the Superintendent of Public Instruction shall be held at the county court house in each county of the state upon the first Saturday of June in each and every year by the county superintendent of schools upon such branches of study as said Superintendent of Public Instruction and the President of said University may deem best.

Questions for such examinations shall be prepared and furnished by the President of the University to the Superintendent of Public Instruction, who shall attend to the printing and distribution thereof to the several county superintendents of schools prior to such examinations.

The law also provides that in case the scholarship in any county is not claimed by a resident of that county, the Superintendent of Public Instruction may fill the same by appointing some candidate first entitled to a vacancy in some other county.

Candidates to be eligible to a state scholarship must be at least sixteen years of age, and must have been residents of their respective counties for the year preceding the examination.

A student holding a state scholarship who shall make it appear to the satisfaction of the President of the University that he requires leave of absence for the purpose of earning funds to defray his expenses while in attendance, may, in the discretion of the President, be granted such a leave of

absence, and may be allowed a period not exceeding six years from the commencement thereof for the completion of his course at said University.

The examinations will be held June 4, 1904, and June 3, 1905.

For particulars about them write to Hon. Alfred Bayliss, Superintendent of Public Instruction, Springfield, or to W. L. Pillsbury, Registrar, Urbana.

Any person, whether a candidate for a scholarship or not, may be examined for admission to the University at these state scholarship examinations.

#### SCHOLARSHIPS IN THE COLLEGE OF AGRICULTURE

The University offers every year to each county in the state, except Cook and Lake, and to each of the first ten congressional districts, one scholarship for prospective students of Agriculture in the College of Agriculture. There is also offered one scholarship for prospective students of Household Science in the College of Agriculture, who are residents of counties or districts in which there are county or district Domestic Science Associations.

Appointments are made by the Trustees of the University to scholarships in Agriculture upon the recommendation of the executive committee of the Illinois Farmers' Institute, and to scholarships in Household Science upon the recommendation of the County Domestic Science Associations. Young men under 16 years of age and young women under 18 years of age and those who have already attended the University are not eligible. Acceptable candidates, residents of counties or districts for which appointments have been made, may be assigned to counties or districts not yet represented.

The scholarships are good for two years and relieve the holders from the payment of the matriculation fee, \$10.00, and the incidental fee, \$24.00 a year. The term of a scholarship may be extended four years, if, before it ex-

pires, the holder satisfies in full the requirements for admission to the freshman class of the College of Agriculture.

For further information address W. L. Pillsbury, Registrar, Urbana.

### MILITARY

Students who have gained 3 hours in class room military instruction and 4 in drill practice, are eligible for appointment as commissioned officers of the regiment or battery. Those attaining this rank may be awarded special scholarships, good for one year, and equal in value to the University incidental fees for the same length of time.

### PRIZES

#### MILITARY DECORATIONS

Bronze medals typical of the University and its Military Department are awarded by the University to the members of the Infantry Company and Artillery Gun Detachment which shall score the greatest number of points at the Annual Competitive Drill. The medals so awarded become the permanent property of the recipients. A complete roster of the winning organizations is published in the University Catalog for the following year.

#### THE HAZLETON PRIZE MEDAL

Capt. W. C. Hazleton provided in 1890 a medal, of beautiful and artistic design, which is to be awarded, at a competitive drill to be held near the close of the year, to the best drilled student. Each competitor must have been in attendance at the University at least sixteen weeks of the current college year; must not have had more than four unexcused absences from drill; and must present himself for competition in full uniform.

The award is made for excellence in these particulars:

1. Erectness of carriage, military appearance, and neatness.



2. Execution of the school of the soldier, without arms.
3. Manual of arms, with and without numbers.

The successful competitor will receive a certificate setting forth the facts, and may wear the medal until the 15th day of May following, when it will be returned for the next competition.

#### INTERSCHOLASTIC ORATORICAL CONTEST

A medal of the value of twenty dollars and two of the value of ten dollars each, are offered annually by the University to the high schools of the state for the best oration delivered in a competitive contest between their representatives. This contest takes place in the spring at the time of the interscholastic athletic meet.

#### THE BRYAN PRIZE

In 1898 Mr. William Jennings Bryan gave to the University two hundred and fifty dollars. From the interest of this sum a prize of twenty-five dollars is biennially offered for the best essay on the science of government. The contest is open to all matriculated undergraduate students. The essays may not be less than three thousand, nor more than six thousand, words in length, and must be left at the President's office not later than the second Wednesday in May. The prize was offered for the first time in 1901.

#### UNIVERSITY HONORS

The University has recently adopted the following plan whereby public official recognition is to be given to such students as attain a very high grade of scholarship. The following is the plan adopted by the University Senate:

*"Preliminary Honors.* These shall be assigned on the completion of the sophomore year. The number of honors to be awarded shall not exceed one-tenth of the membership of the sophomore class. The exact number shall be

determined by the Council of Administration, whose duty it shall be to receive the names of those students who are recommended by the various schools and colleges of the University, and after determining those who may receive honors, to report the list to the Senate. The basis of assignment shall be the scholarship of the student during the freshman and sophomore years. These honors shall be recommended by the schools and colleges and confirmed by the Senate in the manner above described.

*“Final Honors.* These shall be assigned on graduation. The basis for the assignment shall be the scholarship of the students during the junior and senior years. Not more than one-tenth of the senior class shall receive such honors. The method of award shall be the same as in the case of preliminary honors.

*“Special Honors.* These shall be awarded at the close of the senior year. Notification of an intention to compete for these honors must be given in writing to the dean of the college, or to the director of the school in which the student is enrolled not later than the time of registration at the beginning of the senior year. No student may compete for special honors who shall not have completed at least twenty hours' work in the subject or group of allied subjects in which he proposes to compete, before the beginning of the senior year. Candidates for special honors must complete thirty hours' work in one subject or group of allied subjects, must do such other work as the professor in charge may assign, and must prepare an acceptable thesis. Special honors shall be awarded on the recommendation of the professor in charge on the approval of the college or school in which the student is enrolled, and on confirmation by the Senate.

“The names of all students receiving honors shall appear in the University catalog, and on the Commencement program. A condition or a failure shall disqualify a student from receiving general preliminary honors; they shall dis-

qualify a student from receiving final honors if received during junior or senior years. No student shall be eligible for special honors, who, during the period in which he is a candidate for the same, has received a grade of less than eighty-five in any subject."

Preliminary Honors afford an opportunity for sophomores to secure recognition for high scholarship without waiting for graduating, as is often required. Final Honors are to be given to seniors in recognition of high scholarship, the terms being designed especially to favor students whose preparatory education has been so imperfect as to prevent them from obtaining Preliminary Honors. Special Honors are planned for specially brilliant students who may prefer to concentrate their efforts upon a special course. A student may be a recipient of both Final and Special Honors. It will be noticed that the college authorities take the initiative in recommending candidates for both Preliminary and Final Honors, while the student must give notification of his intention to compete for Special Honors. According to the above ruling, notification of a desire to compete for Special Honors must be given not later than the time of registration at the beginning of the senior year; but for the present year this time will be extended to Tuesday, December 1, 1904. Those desiring to compete for Special Honors next year should, if possible, give notification of the fact before Commencement.

## BENEFICIARY AID

### EDWARD SNYDER DEPARTMENT OF STUDENTS' AID

In 1899 Professor Edward Snyder, Professor of the German language and literature, *emeritus*, gave to the University the sum of \$12,000, to be loaned to worthy students to enable them to finish their courses in the University.

This fund is, by action of the Trustees, available for

junior, senior, and graduate students who need aid to remain and complete their work. The minimum loan made is fifty dollars (\$50), and the maximum is one hundred and fifty dollars (\$150) to a junior, and two hundred dollars (\$200) to a senior or graduate student. Notes of hand are taken for the amount of the loans, with 5 per cent. interest. The maximum time limit is three years for juniors, and two years from the ensuing thirtieth day of June for seniors and graduates.

Applications for loans are passed upon by the Council of Administration and approved by the Finance Committee of the Board of Trustees of the University.

Loans are made to matriculated students only who have attained at least the rank of full juniors, who have been in residence at this University at least one year, who are at the time students in residence at this University, and who have declared their intention to graduate.

In recommending loans preference is given to those students who are farthest along in their University work, who have shown themselves most assiduous and successful in their studies, and have shown habitual economy in life.

No distinction shall be made among students on account of sex or course of study.

A loan will not be recommended for any student who is believed to have been financially or morally delinquent in any respect.

Information given by applicants is considered confidential on the part of the University authorities.

Applications for loans must be addressed to

THE PRESIDENT OF THE UNIVERSITY,  
Urbana, Illinois.

#### CLASS OF 1895 LOAN FUND

This is a fund of \$250.00, established by the class of 1895, to be loaned to needy and deserving students. According to the conditions of the gift, one-fifth of the amount

is to be loaned annually, and is open to members of the freshman class only. No person may receive the benefit of the fund more than four years. The loan bears interest at the legal rate from the time the recipient leaves the University, and is due, one-half in five years, and one-half in six years, after matriculation. The management of the fund is in charge of the Council of Administration.

#### COMMITTEE ON APPOINTMENT OF TEACHERS

This committee has in charge the naming of candidates from among University graduates for positions as teachers or supervisors of public schools, or instructors in normal schools, colleges, and technical schools. All requests coming to the University to recommend candidates for such positions go to this committee and should be addressed to the chairman, Professor H. A. HOLLISTER.

### SOCIETIES AND CLUBS

#### LITERARY SOCIETIES

The ADELPHIC and PHILOMATHEAN societies for men, and the ALETHENAI for women, occupy large halls, which the members have appropriately furnished and decorated. Meetings are held Friday evenings throughout term time.

#### THE CHRISTIAN ASSOCIATIONS

The Young Men's and Young Women's Christian Associations have come to occupy a prominent place in the University life. Both are affiliated with the World's Student Christian Federation, which is the largest student organization in existence.

Six hundred men now belong to the Young Men's, and three hundred and sixty women to the Young Women's Association. Each association employs for full time a general secretary.

The Association House furnishes free to all students

reading room, game room, library, parlors, piano, magazines and papers, correspondence tables, and telephone—a college home.

Religious meetings for men are held on Sunday mornings; for women on Thursday afternoons; and for both men and women on Monday evenings. There are frequent meetings for the promotion of social intercourse and good fellowship.

Courses in systematic Bible study and in modern missions are offered. During the year four hundred and seventy men and two hundred and fifty women have enrolled in these courses. A most helpful feature of the work is that in the interest of new students at the opening of the school year. Desirable rooms and boarding places are found and posted for reference at the Association House. Representatives of the Associations meet the trains, assist students in finding satisfactory locations, and endeavor in every way to make them feel at home. The employment bureau helps to find work.

A copy of the Students' Hand-Book, containing a map of the cities, and giving information about Urbana and Champaign, the University, and the various college organizations and activities, will be sent free to prospective students.

For this Hand-Book or for further information address the General Secretary of either Association.

## CLUBS AUXILIARY TO COURSES OF STUDY

### AGRICULTURAL CLUB

This club meets weekly. It is devoted to the discussion of topics of theoretical and practical interest to students of agriculture. All students connected with the University are eligible to membership.

### ARCHITECTS' CLUB

This club meets once in two weeks for the consideration of current topics of architectural interest and subjects

connected with the study of architectural history. All students pursuing architectural studies are eligible to membership. This club is a member of the Architectural League of America, and contributes to its annual exhibition in the principal cities of the United States.

#### **BIOLOGICAL THEORY CLUB**

This club meets on alternate Monday evenings throughout the college year for papers, addresses, and discussions on subjects in theoretical biology. Its membership is composed of instructors in biological subjects in the Colleges of Science and Agriculture.

#### **CIVIL ENGINEERING CLUB**

This club meets on the second and fourth Saturday evenings of each month for the reading and discussion of papers relating to civil engineering. All students pursuing the civil engineering course may become members.

#### **THE ENGLISH CLUB**

The English Club is composed of members of the Faculty, and of students who have done especially good work in English. The work of the club is confined to the study of recent writers of fiction and of poetry. The membership is limited to thirty. Meetings are held on the second Monday of each month.

#### **FRENCH CLUB**

*Le Cercle Français* includes students who have had at least one year's work in French. The club meets twice a month throughout the year. Its proceedings are conducted in French, the object being to supplement the work of the class room by the practical handling and understanding of the language.

#### **GERMAN CLUB**

*Der Deutsche Verein* includes students who have pursued the study of German for two years, and others who have a speaking knowledge of the language. Its proceedings are conducted entirely in German, meetings are held

twice a month and programs of a literary, conversational, and musical nature are presented.

#### **LIBRARY CLUB**

The instructors and students of the Library School have organized a Library Club. Any member of the staff of the University library, of the Champaign public library, or of the Urbana public library, or any student who is registered for the Library School may become an active member. Trustees of the three libraries before mentioned are considered honorary members. Any others interested in library progress may become associate members.

Meetings are held once in three weeks during the college year. The first and last meetings of the year are of a social nature. The intervening meetings are devoted to topics of literary or technical library interest.

#### **MATHEMATICAL CLUB**

The Mathematical Club is open for membership to the instructors and students of mathematics at the University. It meets once in two weeks to discuss questions of interest in pure and applied mathematics.

#### **MECHANICAL AND ELECTRICAL ENGINEERING SOCIETY**

This club meets on the second and fourth Friday evenings of each month. All students pursuing mechanical and electrical engineering studies are eligible to membership. Papers relating to subjects of interest to members are presented and discussed at each meeting.

#### **MUSICAL CLUBS**

These are described under the School of Music (pp. 146, 147).

#### **THE NATURAL HISTORY SOCIETY**

This society is composed of instructors and students interested in the natural sciences. It conducts field excursions and exhibitions of objects of natural history, and provides occasional lectures on science subjects of general interest.



**POLITICAL SCIENCE CLUB**

This club is composed of the members of the corps of instruction in history, economics, and law, and of such students of junior and senior standing as make a record for marked excellence in work in these departments. It meets once a month.

**THE SCANDINAVIAN CLUB**

The Scandinavian Club was organized in the spring of 1900 for the purpose of bringing together all students having a knowledge of at least one of the Scandinavian languages. Meetings are held during the academic year, at which subjects connected with the northern countries, especially with their literatures, are discussed.

**HOUSEHOLD SCIENCE CLUB**

This club, which meets on alternate Wednesdays, is intended to foster general interest in household science. Its meetings are devoted to a discussion of topics relating to that subject.

**ZOOLOGICAL CLUB**

The University Zoölogical Club is composed of advanced students and instructors in the zoölogical and physiological departments, together with such other biological instructors and advanced students as are interested in its subjects. Its sessions are devoted to the presentation and discussion of abstracts of recent biological literature and of the results of investigation by the members of the club. It meets weekly in Natural History Hall.

**MILITARY SCIENCE**

The military instruction is under the charge of an officer of the United States Army. The course as a whole has special reference to the duties of officers of the line. A full supply of arms and ammunition is furnished by the War Department, including 800 cadet rifles and accoutrements and two field pieces of artillery.

Every male student able to perform military duty, and not excused for sufficient cause, is required to drill twice each week until he has gained credit for 4 semester hours. He is also required to study Drill Regulations for Infantry and to recite upon the same once a week until he gains credit for one semester hour. The practical instruction begins as soon as possible after he enters the University. An Academy student carrying no freshman studies and not expecting to matriculate during the year is not permitted to drill. The standings in study and drill are placed on record, with other class credits; one semester of recitations and drill count two hours, and the three remaining semesters of drill three hours, and are requisite to graduation in every University course.

Appointments in the regiment are made on nomination by the officer in charge and confirmation by the Council.

The regiment (three battalions of three companies each and the sophomore reserve company) is composed mainly of the members of the freshman and sophomore classes. The non-commissioned officers are usually selected from the sophomore class, the lieutenants from the junior class, and the field officers and captains from the senior class and graduate school.

A special military scholarship, good for one year, is open to each student who attains the grade of a commissioned officer, the value of which is paid the holder at the close of the year.

An artillery detachment is organized mainly from the second year, or sophomore class, which receives practical instruction twice each week during the college year.

Toward the close of the year a committee appointed by the Council examines candidates for nomination to the Governor of the state to receive commissions as brevet captains in the state militia. Candidates must be members of the senior class in full standing at the time of this examination; must have completed the course of military studies;

must have served four semesters as commissioned officers, and must be approved by the Council as having good reputations as scholars, officers, and gentlemen.

The Trustees have prescribed a uniform of cadet gray, coat trimmed with black mohair braid, trousers with black cloth stripe, cut after the U. S. Army pattern.

In order that all uniforms worn at this University may be, in quality, make, and finish, in strict accordance with the specifications adopted by the Board of Trustees, all students enrolled in the military department are required to obtain them from that firm only that may, for the time being, be under agreement and bond with the Trustees to furnish said uniforms at a stated price and of standard quality.

The University Military Band is composed of students, and every full term of service therein is counted as one term of drill.

## PHYSICAL TRAINING

### FOR MEN

The main object of the work of this department is to preserve and to improve the bodily health of the students by careful physical examinations, and rational prescriptions of exercises; by correcting physical deformities and imperfect development; by teaching proper methods of living; and by encouraging proper intercollegiate sports.

Each student is required to undergo a physical examination so that a correct knowledge of his bodily condition may be obtained, and proper exercises prescribed. Regular classes are formed for drill on the various gymnasium appliances. Lectures are given upon personal hygiene.

All competitive athletic games are under the direct supervision of the director of physical training, and his examination is required to show that membership on any team will not cause injury, but will tend to improve the physical condition. No student whose class work is unsatisfactory will be allowed to play on a University team.

Two courses are offered students who wish to prepare as instructors of physical training or coaches of athletic teams.

#### FOR WOMEN

The general health and development of the young women are carefully looked after by the director of the women's gymnasium. Each student comes under the personal observation of the director and is given an examination, in order that her physical condition may be known, suitable exercise prescribed, and advice given. The eclectic system adopted is designed to meet the special wants of each student. Systematic class drill is given in Swedish, American and Delsarte gymnastics, including free and light exercises, dumbbells, clubs, wands, marching, fancy-steps, the May-pole, games, basket ball, fencing, military drill, athletics, and, if advisable, exercise on the various pieces of apparatus.

Every freshman, not physically disqualified, must take the *prescribed* work. Students may elect enough to make five hours' credit, including that for prescribed work.

The gymnasium is open for exercise, at certain hours, under suitable restrictions, to those who are not enrolled in classes.

The uniform consists of navy blue serge, regulation gymnasium suit, and shoes.

The grounds of the University afford ample means for out-door recreation. There are four tennis courts, golf links, basket ball court, and field for other athletic sports.

Every freshman, not physically disqualified, must take the *prescribed* work. Students may elect enough to make five hours' credit, including that for prescribed work.

The women's gymnasium occupies very attractive quarters in Hydraulic Laboratory Building, and is well equipped. The gymnasium is open for exercise, at certain hours, under suitable restrictions, to those who are not enrolled in classes.

For new gymnasium for women see p. 45.

The uniform consists of navy blue serge, regulation gymnasium suit and shoes.

### HOSPITAL ASSOCIATION

The Hospital Association is an organization of students to provide a fund for hospital care in case of sickness. The members of the association pay a fee of fifty cents each semester and the fund thus raised is used to pay the hospital expenses of members who may need such care. The fund is under the control of a committee of the Council, and during the past five years the association has rendered valuable aid to a considerable number of members. Students are strongly advised to join the association.

## EXPENSES

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### BOARD

The University does not furnish board. There are a large number of suitable private places in Urbana and Champaign, within walking distance of the University, and easily accessible by electric railway, where students can obtain table board and rooms. There are several students' clubs at which the cost of meals is about three dollars a week.

The Business Manager and the Young Men's and Young Women's Christian Associations of the University will aid new students in procuring rooms and boarding places.

### FEES

*Literary, Technological, Scientific, and Agricultural Departments*

MATRICULATION FEE. Each student not holding a scholarship upon satisfying the requirements for admission to the University, pays the matriculation fee of.....\$10 00

THE DIPLOMA FEE, payable before graduation, is..... 5 00

THE INCIDENTAL FEE. All students, except those holding scholarships, pay, each semester, an incidental fee of.... 12 00

TUITION FEE. Students "conditioned" on entrance requirements, "special" students (see p. 70), except special students holding scholarships, pay, each semester, a tuition fee of ..... 7 50

LABORATORY FEES AND DEPOSITS. Each student working in laboratories, or in the drafting or engineering classes, is required to make a deposit varying from 50 cents to \$10.00, to pay for chemicals and apparatus used, and for any breakages or damages.

*Music Department*

Students who are residents of Illinois, not including members of the Graduate School, will, if they are matriculated, pay for instruction in music of college grade the "incidental" fee only.....\$12 00

All other students receiving instruction in music of college grade and all students receiving instruction in music of preparatory grade, pay special fees as follows:

College. Preparatory.

Piano, organ, voice, or violin or other stringed instrument, two lessons a week, each semester .....	\$32 50	\$19 50
Same, one lesson a week.....	19 50	11 00
Students in harmony, counterpoint, fugue, etc., pay, each semester .....		9 00

[If students are regularly enrolled in other departments, the fees for college music are reduced to \$25.00 and \$15.00; and for preparatory music to \$15.00 and \$8.50, each semester.]

Special students, taking music only, may enter classes in Physical Training (see p. 276) on paying each semester..\$ 7 50

No deduction is made on account of absence in any course, except in case of protracted illness.

Students can rent pianos for practice by applying to the head of the music department.

*College of Law*

Students of the College of Law, upon satisfying the requirements for admission, pay the matriculation fee of.....	\$10 00
Tuition fee, each semester.....	25 00
Students conditioned on entrance requirements pay, each semester, an additional fee of.....	7 50

*College of Medicine*

Matriculation fee, paid each year.....	\$ 5 00
General ticket, each year.....	120 00
Laboratory deposit .....	20 00
Dissections, per part and County Hospital ticket, each.....	5 00
Maternity hospital fee, payable once during senior year.....	10 00

*School of Dentistry*

Matriculation fee, each year.....	\$ 5 00
General ticket, each year.....	100 00
Laboratory ticket, first and second years.....	10 00
Dissecting fee, first and second years.....	5 00
Final examination fee, third year.....	20 00

*School of Pharmacy*

Tuition fee, each year.....	\$75 00
Laboratory deposit, each year.....	5 00
Diploma fee .....	5 00

*Academy*

All pupils in the Academy pay, each semester, an "incidental" fee of .....	\$12 00
Also a tuition fee of.....	7 50

ALL BILLS due the University *must be paid within ten days after the student enters classes.*

**EXPENSES**

The following are, for students attending at Urbana, estimated average annual expenses, *exclusive* of books, clothing, railroad fare, laboratory fees, if any, and small miscellaneous needs:

*Semester fees .....	\$24 00 to	\$24 00
Room rent for each student (two in room).....	36 00	60 00
Table board in boarding houses and clubs .....	108 00	124 00
Washing .....	18 00	24 00
Total .....	\$186 00 to	\$232 00
Board and room in private houses, per week....	4 50	6 00

In addition to the above, freshmen pay a matriculation fee of \$10.00, and the young men are required to buy a cadet uniform at \$15.00. Freshmen engineering students will need to buy a set of drawing instruments at a cost of about \$18.00. Other necessary expenses will need to be taken into consideration. Three hundred and forty scholar-

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\*Students of law and music, special students and pupils of the Academy, must make needed changes in the amount given for "Semester fees."



ships are offered each year. These cover the student's incidental fees and the matriculation fee. For all the necessary expenses of the year, the average student is not likely to live for less than \$275.00 or \$300.00.

**CAUTION TO PARENTS—STUDENTS' FUNDS**

The Business Manager will receive on deposit any funds parents may entrust to him to meet the expenses of their sons and daughters. No greater error can be committed than to send young people from home with large amounts of spending money, and without the authoritative care of some prudent friend. Half the dissipation in colleges springs from excessive allowances of money.

# ACADEMY

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## INSTRUCTORS.

FRANK HAMSHER, A. B., Principal, History. (On leave, 1903-4.)

ERNEST B. LYTLE, B. S., Acting Principal (1903-4), Mathematics.

BERTHA M. PILLSBURY, A. M., English Literature and Composition.

JOHN E. MILLER, A. M., Greek and Latin.

MARGARET A. SCOTT, German and French.

WALTER C. LINDLEY, A. B., English and Composition.

JOHN T. JOHNSON, Natural Sciences.

JOSEPH H. GORDON, A. M., History and Geometry.

CHARLES W. WHITTEN, Physics and Geometry.

NOAH KNAPP, Mathematics.

The Academy is maintained by the University to meet the needs of two classes of students: first, those whose home schools are unable to prepare them for the University; second, those who have been delayed for one reason or another in their school work and now wish to prepare for college in the shortest time consistent with thoroughness. The primary aim of the school is to fit students for the college entrance requirements, and its plan of organization is wholly determined by this purpose. Being in close touch with the University it has special advantages in doing this work. The school, however, has no desire to attract students from towns that support good high schools. It is believed that in such cases it is better for the student to attend his home school. The Academy is maintained by the University, but has a faculty and organization dis-

tinctly its own. It is a thorough and progressive secondary school.

### ADMISSION

Candidates for admission must be at least fifteen years of age. Those twenty-one years of age may enter such classes as they are prepared for without examination. All under twenty-one years of age, except those coming from accredited schools (see p. 55) must pass a satisfactory examination in the following subjects:

1. ARITHMETIC.—A thorough knowledge is required of fundamental operations, simple and denominate numbers, the metric system of weights and measures, common and decimal fractions, practical measurements, percentage, ratio and proportion.

2. ENGLISH.—The examination is intended to test the student's vocabulary and his knowledge of grammar.

3. GEOGRAPHY.—An accurate knowledge of physical configuration, political divisions, and important centers of populations, is required.

4. HISTORY.—As a foundation in this subject, a knowledge of the early settlement of North America, and of the growth and development of the United States, is required. A knowledge of the nature and operation of the forces active in American life is desired, rather than the memorization of isolated dates and names.

ENTRANCE should be made at the opening of a semester, but applicants will be admitted at other times on presenting proofs that they are prepared to pursue the selected subjects. Examinations will be held in the rooms of the school, September 7 to 10, 1904, and January 3 to 6, 1905. Examinations on these dates are free, but for special examinations at other times a fee of \$3.00 may be charged.

EXAMINATIONS FOR ENTRANCE may be conducted in Illinois by county superintendents of schools in the same manners as for teachers' certificates, and their favorable reports will be accepted. First or second grade teachers' certificates from superintendents of Illinois will be taken for the same purpose.

ADMISSION FROM ACCREDITED SCHOOLS. On the written recommendation of their principals, students from the ac-

credited schools of the University may be admitted without entrance examinations and credit will be allowed for all equivalent work already done. Blanks for such recommendations will be sent on application.

### COURSE OF STUDY

The curriculum is limited to those subjects which must be, and certain electives which may be, offered for entrance credit. A description of the work undertaken in each of the various subjects may be found on pages 62-68.

The time necessary to complete the requirements for entrance to the University is not fixed, but depends upon the ability and previous training of the student.

### COURSE OF INSTRUCTION

FIRST SEMESTER.—Algebra \*1; Review Algebra; Plane Geometry 1; Plane Geometry 2; Solid Geometry; English 1; English 3; English 5; Latin 1; Latin 3; Latin 5; Greek 1; Greek 3; German 1; German 3; French 1; French 3; Physics 1; Zoölogy; Physiology; Art and Design 1; English History; Ancient History.

SECOND SEMESTER.—Algebra 1; Algebra 2; Plane Geometry 1; Plane Geometry 2; Solid Geometry; English 2; English 4; English 6; Latin 2; Latin 4; Latin 6; Greek 2; Greek 4; German 2; German 4; French 2; Physics 2; Physiography; Art and Design 1; Art and Design 2; Botany; American History; English History.

### REGULATIONS

Reports regarding students will be sent to parents at the close of each semester upon request.

The calendar of the Academy is the same as that of the University.

For information about fees and expenses, see page 316.

For special information with regard to the Academy of University of Illinois, address FRANK HAMSHER, Principal, Urbana, Ill.

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\* The figures 1, 2, 3, etc., following subjects indicate the first, second, etc., semester of study of the several subjects; thus, French 1 means beginning French, French 3 the first semester of the second year's work in French.

# LIST OF STUDENTS

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## LITERARY, TECHNOLOGICAL, SCIENTIFIC, AND AGRICULTURAL DEPARTMENTS.

### GRADUATE SCHOOL

#### CANDIDATES FOR THE DEGREE OF DOCTOR OF PHI- LOSOPHY

- \*Crocker, William, A. M., 1903, *Kewanee*, Botany.  
Day, Edna Daisy, M. S., (*Univ. of Mich.*), 1897, *Urbana*, Botany.  
Dewey, James Ansel, M. S., 1898, *Urbana*, Bacteriology.  
Gleason, Harry Allan, B. S., 1901, *Champaign*, Systematic and  
Geographical Botany.  
Heuse, Edward Otto, B. S., (*Hanover Coll.*), 1900, *Madison, Ind.*,  
Chemistry.  
Latzer, Jennie Mary, M. S., 1900, *Highland*, Bacteriology.  
Miller, John Ezra, A. M., 1902, *Urbana*, Latin.  
\*Mojonnier, Timothy, B. S., 1901, *Greenville*, Chemistry.  
Reeves, George I, A. B., 1902, *Waupoosee*, General Science.  
\*Ross, Luther Sherman, M. S., 1900, *Des Moines, Ia.*, Biology of  
Subterranean Crustaceans.  
Sakagami, Yasuzo, M. L., (*Univ. of Minn.*), 1899, *Wakagamaken*,  
*Japan*, Political Science.  
Sammis, John Langley, M. S., 1899, *Champaign*, Chemistry.  
\*Savage, George Marvin, M. L., 1880, *North Seattle, Wash.*, Eco-  
nomics and History.  
Schulz, William Frederick, E. E., 1900, *Urbana*, Electrical Engineer-  
ing.  
Zartman, Lester William, A. B., 1903, *Grant Park*, Economics.

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\*In absentia. See page 293.

## CANDIDATES FOR THE MASTER'S DEGREE

- Anderson, Mary, A. B., 1903, *Macon*, Mathematics.
- Barrett, James Theophilus, A. B., 1903, *Urbana*, Botany.
- Black, Alice Mary, A. B., 1900, *Champaign*, Latin.
- \*Bond, Anna Louise, A. B., 1903, *Mt. Vernon*, English.
- \*Booker, Lucile Alice, A. B., 1899, *Stillwater, Minn.*, English.
- Briscoe, Charley Francis, A. B., (*Indiana State Univ.*), 1899, *Urbana*, Botany.
- \*Bullock, Jessie Jane, A. B., 1900, *Champaign*, Mathematics.
- \*Church, Walter Samuel, B. S., 1900, *Chicago*, Architecture.
- \*Clark, Mary Edith, A. B., 1899, *Sheldon*, Philosophy.
- Clark, Samuel C, S. B., (*Univ. of Chicago*), 1900, *Urbana*, Chemistry.
- \*Clarke, Edwin Besançon, B. S., 1891, *Chicago*, Architecture.
- \*Collis, Frank Bernard, B. S., 1902, *Norwich, Conn.*, Mechanical Engineering.
- Crosthwait, George Ashley, B. S., 1903, *Moscow, Idaho*, Farm Management.
- Crane, Fred Randall, B. S., (*Mich. Agr'l Coll.*), 1899, *Urbana*, Architecture of Farm Buildings.
- Dickerson, Oliver Morton, A. B., 1903, *West Liberty*, History.
- Dillon, Gertrude Sempill, A. B., 1901, *Sheldon*, German.
- Doran, Edwin Wortham, Ph. D., (*Cumberland Univ.*), 1890, *Mattoon*, San Jose Scale.
- East, Edward Murray, B. S., 1901, *Champaign*, A Chemical Study of the Irish Potato, in View of Breeding it for a Higher Protein Content.
- Falkenberg, Fred Peter, A. B., 1902, *Chicago*, English.
- Fox, Harry Bert, B. S., 1900, *Urbana*, Geology and Physiography of a section around Urbana and Champaign.
- Franklin, Lois Gertrude, A. B., 1903, *Dwight*, History.
- Fritter, Enoch Abraham, A. M., (*Findlay Coll.*), 1898, *Normal*, English.
- \*Fucik, Edward James, B. S., 1901, *Chicago*, Civil Engineering.
- \*Gallaher, Thomas Theron, A. B., 1902, *Byron*, Philosophy.
- Garlough, Carl D, A. M., (*Hillsdale Coll.*), 1900, *Stanford*, Mathematics.
- Gilkerson, Frances Emeline, A. B., 1903, *Urbana*, German.

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\*In absentia. See page 293.

- \*Greenman, Edwin Gardner, Jr., B. S., 1902, *Champaign*, Mechanical Engineering.
- \*Grimes, George Lyman, B. S., 1897, *Kewanee*, Mechanical Engineering.
- Harris, Thomas Luther, A. B., 1902, *Modesto*, Economics.
- Hayhurst, Emery Roe, A. B., 1903, *Maywood*, Physiology.
- \*Heath, Lawrence Seymour, A. B., 1901, *Edinburg*, Latin.
- \*Hicks, Byron Wallace, B. S., 1901, *Warren*, Civil Engineering.
- \*Higgins, Francis Whitson, B. S., 1902, *Niagara Falls, N. Y.*, Analytical Chemistry.
- Hoff, Edna DuBois, A. B., 1903, *Chicago Heights*, Chemistry.
- \*Hoppin, Charles Albert, B. S., 1901, *Milwaukee, Wis.*, Mechanical Engineering.
- Hughes, Clarence Wilbert, A. B., 1900, *Urbana*, History.
- Ingels, Bert Dee, B. S., (*DePauw Univ.*), 1903, *Greencastle, Ind.*, Chemistry.
- \*Ireland, Washington Parker, B. S., 1903, *Chicago*, Civil Engineering.
- \*Johnson, Frederick Dawson, B. S., 1903, *Alton*, Mechanical Engineering.
- \*Johnson, Fred Vollentine, B. S., 1902, *Harvey*, Mechanical Engineering.
- Jones, Warren, A. B., 1902, *Aurora*, Education.
- Kelley, Frances Emily, A. B., 1901, *St. David*, German.
- \*Kofoid, Reuben Nelson, A. B., 1902, *Buffalo, N. Y.*, Analytical Chemistry.
- Lafferty, Guy Clifford, A. B., (*Monmouth Coll.*), 1903, *Alexis*, Economics.
- Larson, Lawrence Fred, A. B., 1903, *Galva*, Economics.
- \*Layton, Katherine Alberta, A. B., 1901, *Canton*, German.
- Lytle, Ernest Barnes, B. S., 1901, *Urbana*, Mathematics.
- \*McConnell, Ernest, B. S., 1894, *Denver, Colo.*, Architecture.
- \*McCormick, Flora, B. L., 1894, *Champaign*, History.
- \*McLane, John Wallace, B. S., 1901, *Washington, D. C.*, Investigation of Soil Moisture.
- Malcolm, Charles Wesley, B. S., 1902, *Roseville*, Civil Engineering.
- \*Martin, Albert Carey, B. S., 1902, *LaSalle*, Architecture.
- Matson, George Charleton, A. M., (*Cornell Univ.*), 1903, *Champaign*, Investigation of Lime and Cement.

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\*In absentia. See page 293.

- \*Mayall, Edwin Lyman, B. S., 1900, *Peoria*, Mechanical Engineering.
- Miller, Harry Crawford, *Nokomis*, Education.
- Moor, Rev. George Caleb, Ph. D., (*Ewing Coll.*), 1902, *Champaign*, English.
- \*O'Hair, Elizabeth Edna, A. B., 1901, *Laurel, Ind.*, Latin Prose of the Empire.
- Parker, Lawrence Gilbert, B. S., 1902, *Toluca*, Civil Engineering.
- \*Parr, Robert William, A. B., 1903, *Pontiac*, Economics.
- Ponzer, Ernest William, B. S., 1900, *Champaign*, Mathematics.
- \*Radcliffe, William Hickman, B. S., 1901, *Chicago*, Civil Engineering.
- Randall, Dwight T, B. S., 1897, *Urbana*, Mechanical Engineering.
- \*Richart, Frederick William, B. S., 1891, *Carterville*, Mechanical Engineering.
- Rolfe, Martha Deette, B. S., 1900, *Champaign*, Physiography.
- Rolfe, Mary Annette, A. B., 1902, *Champaign*, Physiography.
- \*Sawyer, George Loyal, B. S., 1903, *Chicago*, Municipal and Sanitary Engineering.
- \*Scudder, Harry Disbro, B. S., 1902, *Chicago*, Agriculture.
- \*Skinner, Elgie Ray, B. S., 1903, *Chicago*, Mechanical Engineering.
- Slocum, Roy Harley, B. S., 1900, *Urbana*, Municipal and Sanitary Engineering.
- \*Smith, Bruce, A. B., 1901, *Newman*, English Criticism of the 19th Century.
- \*Smith, Florence Mary, A. B., 1899, *Urbana*, English.
- Smith, Fred John, A. B., 1899, *San Jose*, German.
- \*Smith, George Russell, B. S., 1900, *Urbana*, Mechanical Engineering.
- \*Smith, Percy Almerin, B. S., 1901, *Hiroshima, Japan*, Mathematics and Physics.
- \*Soverhill, Harvey Allen, B. S., 1900, *Beloit, Wis.*, Mechanical Engineering.
- \*Sperling, Godfrey, B. S., 1895, *Boise, Idaho*, Civil Engineering.
- \*Stine, John Carl, A. B., 1903, *Assumption*, Zoölogy.
- \*Strehlow, Oscar Emil, B. S., 1896, *Tuscaloosa, Ala.*, Civil Engineering.
- \*Sussex, James Wolfe, B. S., 1903, *Abingdon*, Civil Engineering.
- \*Swanberg, Floyd Ludwig, B. S., 1902, *Danville*, Mechanical Engineering.

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\*In absentia. See page 293.



- \*Sweney, Don, B. S., 1896, *Galesburg*, Mechanical Engineering.  
 Taylor, Helen Mary, A. B., 1902, *Bloomington*, English.  
 \*Terry, Charles Dutton, B. S., 1897, *Kewanee*, Mechanical Engineering.  
 \*Tower, Willis Eugene, B. S., 1894, *Chicago*, Physics.  
 \*Tull, Effie May, A. B., 1901, *Farmer City*, Latin.  
 Waterbury, Leslie Abram, B. S., 1902, *Urbana*, Civil Engineering.  
 Webber, Roy Irvin, B. S., (*Purdue Univ.*), 1899, *Urbana*, Civil Engineering.  
 Welles, Miriam Ursula, A. B., 1903, *Malden*, Entomology.  
 Western, Irving Mark, A. B., 1902, *Dundee*, Rhetoric.  
 \*Whitehouse, Edith Ursula, A. B., 1902, *Canton*, Latin.  
 \*Whitmeyer, Mark Halbert, B. S., 1899, *Danville*, Architecture.  
 Whitsitt, Hammond William, B. S., 1903, *Urbana*, Architecture.  
 \*Willcox, Maurice Meacham, B. S., 1899, *Kentwood, La.*, Civil Engineering.  
 Williams, Winifred Sue, A. B., 1901, *Urbana*, German.  
 Willis, Clifford, B. S., 1900, *Urbana*, Entomology.  
 Wilson, Joseph Wade, B. S., 1903, *Chicago*, Architecture.  
 \*Wright, Sidney Walter, A. B., 1901, *Mechanicsburg*, History.  
 \*Wood, Harvey Edgerton, A. B., 1900, *Joliet*, Economics.  
 Young, Sadie, B. S., (*Univ. of Fla.*), 1902, *Lake City, Fla.*, English.

NOT CANDIDATES FOR A DEGREE

- Calhoun, Henrietta Anne, A. M., 1903, *Champaign*.  
 Fox, Fred Gates, A. M., 1903, *Urbana*.  
 Lloyd, John William, M. S. A., (*Cornell Univ.*), 1903, *Champaign*.  
 Zangerle, Arthur Norman, B. S., 1903, *Chicago*.

SENIORS

In the list which follows, "L. and A." stands for College of Literature and Arts; "S." for the College of Science.

Abell, Ralph Elliott,	<i>Elgin,</i>	Architecture.
Aldrich, Blanche,	<i>Normal,</i>	General, L. and A.
Allen, Arthur William,	<i>Peoria,</i>	Architectural Eng'g.
Anderson, John Edward,	<i>Paxton,</i>	History.
Armeling, Carl Elmer ,	<i>Mason City,</i>	Classical.
Armstrong, Gertrude Maud,	<i>Champaign,</i>	General, L. and A.
Askins, Adolphus Edward,	<i>Lakewood,</i>	Civil Eng'g.
Baer, David Arthur,	<i>Good Hope,</i>	Electrical Eng'g.

\*In absentia. See page 293.

Bailey, Walter Thomas,	<i>Kewanee,</i>	Architecture.
Ballard, William Salisbury,	<i>Batavia,</i>	General Science.
Ballinger, Relph Adams,	<i>Keokuk, Ia.,</i>	Mechanical Eng'g.
Barker, Perry,	<i>Rochelle,</i>	Chemistry.
Barnhart, Charles Anthony,	<i>Urbana,</i>	Math. and Physics.
Barter, Harold Hendryx,	<i>Chicago,</i>	Mechanical Eng'g.
Bauer, Ralph Stanley,	<i>Champaign,</i>	Classical.
Benson, Arthur Chapman,	<i>Vienna,</i>	General, L. and A.
Benson, James Russell,	<i>Bloomington,</i>	General, L. and A.
Bevans, Mary Matilda,	<i>Decatur,</i>	Library, 2nd year.
Blackburn, Roy Jabez,	<i>Decatur,</i>	Civil Eng'g.
Blocher, John Douglas,	<i>Amboy,</i>	General, L. and A.
Bogardus, Frank Smith,	<i>Normal,</i>	History.
Bond, Bertha Julia,	<i>Charleston,</i>	Library, 1st year.
Booker, Helen Ethel,	<i>Champaign,</i>	General, L. and A.
Booth, Mary Josephine, A. B., ( <i>Beloit College</i> ), 1900,	<i>Beloit, Wis.,</i>	Library, 2nd year.
Born, Alda Holderman,	<i>Champaign,</i>	General, L. and A.
Braun, Walter Charles Emil,	<i>Chicago,</i>	Chemistry.
Browder, Olin Lorraine,	<i>Mt. Vernon,</i>	General, L. and A.
Brown, Seymour Dewey,	<i>Chicago,</i>	Civil Eng'g.
Brunner, Camilla Margaret,	<i>Peru,</i>	General, L. and A.
Buchanan, John Lee,	<i>Lacon,</i>	Electrical Eng'g.
Buck, Gertrude Amelia,	<i>Platteville, Wis.,</i>	Library, 2nd yr.
Burford, Cary Clive,	<i>Hoopston,</i>	Education.
Burgess, Fred Henry,	<i>Monticello,</i>	Civil Eng'g.
Burgess, Ralph Royal,	<i>Monticello,</i>	Architecture.
Cafky, Mabel Etta,	<i>Jacksonville,</i>	Library, 2nd year.
Caldwell, Elizabeth Eleanor,	<i>Zanesville, O.,</i>	Library, 1st year.
Campbell, Muriel Florence,	<i>Champaign,</i>	General, L. and A.
Carothers, Wilhelmina Ellen,	<i>Grand Forks, N. D.,</i>	Lib., 1st yr.
Carriel, Fred Clifford,	<i>Jacksonville,</i>	Railway Eng'g.
Chapin, Lucy,	<i>Champaign,</i>	General, L. and A.
Christiansen, Wilhelmine Marie,	<i>Juncou, Wis.,</i>	Library, 1st year.
Clark, Angie Ray,	<i>Chicago,</i>	General, L. and A.
*Clark, Gilbert Barton,	<i>Chicago,</i>	Business, L. and A.
Clark, Thomas Aquilla,	<i>Urbana,</i>	Electrical Eng'g.
Clarkson, Edna,	<i>Carthage, Mo.,</i>	Library, 2nd year.
Cole, Emo Lizzie,	<i>Keokuk, Ia.,</i>	General, L. and A.

\*Died.

Conard, Emmett Clyde,	<i>Monticello,</i>	Agriculture.
Converse, Edward Chapman,	<i>Naperville,</i>	Education, S.
Coolidge, Orrill Pauline,	<i>Niles, Mich.,</i>	Library, 2nd year.
Coy, Alice Bourland,	<i>Cincinnati, O.,</i>	Library, 2nd year.
Cresap, Fred,	<i>Cushman,</i>	General, L. and A.
Cresap, Trella Jane,	<i>Cushman,</i>	General, L. and A.
Dadant, Henry Camille,	<i>Hamilton,</i>	Civil Eng'g.
Davis, Cleon Leslie,	<i>Urbana,</i>	Civil Eng'g.
Davis, John Wolfersperger,	<i>Sterling,</i>	Civil Eng'g.
Davison, Mabel Katherine,	<i>Joliet,</i>	Library, 2nd year.
Dayton, Laura,	<i>Paris,</i>	Classical.
Derby, Alice Greenwood, Ph. B.		
( <i>Ohio State University</i> ), 1901,	<i>Columbus, O.,</i>	Library, 1st year.
Derr, Harry Benjamin,	<i>Champaign,</i>	Agriculture.
Deutschmann, Fred John, Jr.,	<i>Belleville,</i>	Civil Eng'g.
Dewey, James Ansel, M. S., 1898,	<i>Urbana,</i>	Agriculture.
Dieterle, Edward August,	<i>Chicago,</i>	Mechanical Eng'g.
Dickey, Cromwell Bartlett,	<i>La Grange,</i>	Chemical Eng'g.
Diefenbach, Arthur Garfield,	<i>Blue Island,</i>	Electrical Eng'g.
Diener, Walter Gustav,	<i>Chicago,</i>	Electrical Eng'g.
Dillon, Mertie May,	<i>Normal,</i>	General, L. and A.
Dirks, Henry Bernhard,	<i>Chicago,</i>	Mechanical Eng'g.
Doeden, Frederic Hugo,	<i>Eureka,</i>	General, L. and A.
Dorman, Archie Bland,	<i>Taylorville,</i>	General, L. and A.
Duell, Earl Leroy,	<i>Devil's Lake, N. D.,</i>	General, L. and A.
Durland, Clyde Earl,	<i>Flora,</i>	Civil Eng'g.
Edwards, Charles,	<i>Peru,</i>	Chemistry.
Eidam, Edward Gollert,	<i>Blue Island,</i>	Mechanical Eng'g.
Eide, Torris,	<i>Lee,</i>	Civil Eng'g.
Elden, Ralph Waldo,	<i>Elburn,</i>	Municipal Eng'g.
Elder, Ralph Maxwell,	<i>Hamilton,</i>	Civil Eng'g.
Engstrom, Roy Victor,	<i>Peoria,</i>	Municipal Eng'g.
Ericson, Lambert Theodore,	<i>Moline,</i>	Civil Eng'g.
Etherton, William Alonzo,	<i>E. St. Louis,</i>	Architectural Eng'g.
Evans, Kenneth Neill,	<i>Taylorville,</i>	General, L. and A.
Fwing, Charles Edwin,	<i>Decatur,</i>	Civil Eng'g.
Flagg, Samuel Barry,	<i>Alton,</i>	Mechanical Eng'g.
Fleming, Clarence Earl,	<i>Delavan,</i>	General, L. and A.
Fletcher, Carl Joshua,	<i>Galesburg,</i>	Electrical Eng'g.
Foster, Caroline Katharine,	<i>Pittsburg, Pa.,</i>	Library, 2nd year.

Frankenberg, Pearle,	<i>Urbana,</i>	Library, 2nd year.
French, Burton,	<i>Chicago,</i>	Electrical Eng'g.
Fursman, William Hiram,	<i>El Paso,</i>	Civil Eng'g.
Fyfe, Isabella,	<i>St. Joseph, Mich.,</i>	Library, 2nd yr.
Garnett, Elmer Logan,	<i>St. Mary's,</i>	General, L. and A.
Gaston, Newton David,	<i>Peoria,</i>	Mechanical Eng'g.
George, Lillian Mabelle,	<i>Amesbury, Mass.,</i>	Library, 1st yr.
Gibbs, Charlotte Mitchell,	<i>Plymouth, Mass.,</i>	General, L. and A.
Gillespie, Louella Ida,	<i>Champaign,</i>	General, L. and A.
Gillham, Philip Dakin,	<i>Princeton,</i>	Civil Eng'g.
Ginzler, Carl Louis,	<i>Trenton,</i>	Civil Eng'g.
Glassco, Paul Bond,	<i>Charleston,</i>	Architectural Eng'g.
Glassco, Roy Thomas,	<i>Charleston,</i>	Agriculture.
Gorham, Josiah,	<i>Champaign,</i>	Chemistry.
Gramesley, Margaret Amidon,	<i>Charleston,</i>	Library, 2nd year.
Green, Cella Genevieve,	<i>Ivesdale,</i>	General, L. and A.
Greene, Elizabeth Grosvenor,	<i>Tokio, Japan,</i>	General, L. and A.
Greene, Hibbard Spencer,	<i>Lisle,</i>	Electrical Eng'g.
Greene, Mabel, Pd. M. ( <i>Coll. of</i> <i>City of New York</i> ), 1892,	<i>Florida, N. Y.,</i>	Library, 1st year.
Hadfield, Frank Stanley,	<i>Chicago,</i>	Mechanical Eng'g.
Harris, Mary Elizabeth, B. L. ( <i>Earlham Coll.</i> ), 1897,	<i>Ann Arbor, Mich.,</i>	Library, 1st year.
Haviland, Altha,	<i>Humboldt,</i>	General, L. and A.
Hawes, Charles Wesley, Jr.,	<i>Rock Island,</i>	Mechanical Eng'g.
Hawthorne, Elizabeth Lena,	<i>LaPlace,</i>	General, L. and A.
Henry, Smith Tompkins, Jr.,	<i>Bushnell,</i>	Municipal Eng'g.
Hess, Mrs. Gertrude Fox,	<i>Columbus, O.,</i>	Library, 2nd year.
Hewerdine, Thos. Sloan,	<i>Urbana,</i>	Civil Eng'g.
Hewitt, Nellie Goodwin, A. B. ( <i>Wells Coll.</i> ), 1898,	<i>Indianapolis, Ind.,</i>	Library, 2nd year.
Hilliard, Frank Wyman,	<i>Brighton,</i>	Electrical Eng'g.
Hilts, Roy Wilson,	<i>Bloomington,</i>	Chemistry.
Holch, Fred Leidy,	<i>Gilman,</i>	General, L. and A.
Holcomb, Clarence Eugene,	<i>Milmine,</i>	Electrical Eng'g.
Holcomb, Timothy Osmond, Jr.,	<i>Milmine,</i>	Political Science.
Holderman, Harriet,	<i>Morris,</i>	Library, 2nd year.

Hopkins, Edna, A. B. ( <i>Univ. of Cincinnati</i> ), 1902,	<i>Cincinnati, O.</i> , Library, 2nd year.
Horr, Ray Leekley,	<i>Galena</i> , Electrical Eng'g.
Howe, Ralph Barnard,	<i>Urbana</i> , Agriculture.
Howell, Clarissa Louise,	<i>Beloit, Wis.</i> , Library, 1st year.
Hunt, Mabel Dorothy,	<i>Urbana</i> , General, L. and A.
Jackson, Charlotte May,	<i>Ithaca, N. Y.</i> , Library, 2nd year.
Janssen, Otto,	<i>Los Angeles, Cal.</i> , Architecture.
Jones, Lucile,	<i>Chicago</i> , General, L. and A.
Karnopp, Edwin Benjamin,	<i>Chicago</i> , Civil Eng'g.
Kelly, David Henry,	<i>El Paso, Tex.</i> , Electrical Eng'g.
King, Leila Pauline,	<i>Rockford</i> , Library, 2nd year.
Kircher, Harry Bertram,	<i>Belleville</i> , Electrical Eng'g.
Klager, Karoline, B. L. ( <i>Univ. of Michigan</i> ), 1900,	<i>Ann Arbor, Mich.</i> , Lib., 1st year.
Knapp, Noah,	<i>Hindsboro</i> , General, L. and A.
Kneeland, Frank Hamilton,	<i>Dwight</i> , Mechanical Eng'g.
Koehn, Martha Caroline,	<i>Menominee, Mich.</i> , Gen. L. and A.
Kreisinger, Henry,	<i>Champaign</i> , Mechanical Eng'g.
Lease, Leonard John,	<i>Nokomis</i> , Electrical Eng'g.
Leverton, Ernest Richard,	<i>Warren</i> , Mechanical Eng'g.
Logeman, Albert Edwin,	<i>Chicago</i> , Mechanical Eng'g.
Loosley, Frederick Edwin,	<i>Rock Island</i> , Mechanical Eng'g.
Love, Leila Sara,	<i>Danville</i> , General, L. and A.
Lucas, Rena Avis,	<i>Urbana</i> , Library, 2nd year.
McCarthy, John James,	<i>Chicago</i> , Library, 2nd year.
McCarty, John,	<i>Tuscola</i> , Agriculture.
McClure, Elizabeth Delilah, B. S. ( <i>Ill. Wesleyan Univ.</i> ), 1903,	<i>Bloomington</i> , General, L. and A.
McCullough, Isabella Jane, B. L. ( <i>Univ. of Wis.</i> ), 1897,	<i>Zanesville, Wis.</i> , Lib., 2nd year.
McCullough, John Fred,	<i>Centralia</i> , Electrical Eng'g.
McCully, William Ashway,	<i>Champaign</i> , Civil Eng'g.
McIlhenny, Mary Elizabeth,	<i>Macomb</i> , General Science.
McKnight, William Asbury,	<i>Ingraham</i> , Municipal Eng'g.
McMillan, Neil, Jr,	<i>Chicago</i> , Architecture.
Mangas, Maude,	<i>Lincoln</i> , General, L. and A.
Manspeaker, Pearle,	<i>Champaign</i> , General, L. and A.
Mark, Elvira Ellen,	<i>Oxford, O.</i> , General, L. and A.
Marsh, George Requa,	<i>Marseilles</i> , Agriculture.

Marsh, Thomas Alfred,	<i>Loda,</i>	Mechanical Eng'g.
Mather, Myra Abbie,	<i>Joliet,</i>	General, L. and A.
Mautz, George John,	<i>Pana,</i>	Prep. to Medicine.
Mead, Clarence Eugene,	<i>Chillicothe,</i>	Electrical Eng'g.
Mercer, Iva Esther,	<i>Centralia,</i>	General, L. and A.
Miller, Fred Charles,	<i>Peoria,</i>	Architecture.
Mills, Floyd Earl,	<i>McNabb,</i>	Civil Eng'g.
Miner, Aaron W,	<i>Adair,</i>	Agriculture.
Miskimen, William Anderson,	<i>Hoopeston,</i>	Mechanical Eng'g.
Moles, Martha Edith,	<i>Madison, Wis.,</i>	Library, 1st year.
Moore, Erma Jane,	<i>Vanlue, O.,</i>	Library, 2nd year.
Morse, Henry Charles,	<i>Chandlerville,</i>	Civil Eng'g.
Muller, Jacob William,	<i>Belleville,</i>	Mechanical Eng'g.
Muhl, Fred Lewis,	<i>Bloomington,</i>	Architecture.
Munsen, Andrew,	<i>Ohio,</i>	Civil Eng'g.
Murphey, Howard Bruce,	<i>Champaign,</i>	Civil Eng'g.
Naylor, Helen Andromache,	<i>Mason City,</i>	General, L. and A.
Niedermeyer, Frederick David,	<i>Decatur,</i>	General, L. and A.
Ocock, Charles Albert,	<i>Marengo,</i>	Agriculture.
Ogihara, Tokiyo,	<i>Tokio, Japan,</i>	General Science.
Osgood, Mary Anderson,	<i>Denver, Colo.,</i>	Library, 1st year.
Outhouse, Fred Myrine,	<i>Lily Lake,</i>	General, L. and A.
Paine, Mattie May,	<i>Rosemond,</i>	General, L. and A.
Park, William Mansfield,	<i>Urbana,</i>	Mechanical Eng'g.
Patterson, Maud May,	<i>Rochelle,</i>	Mathematics.
Pearson, Ida May,	<i>Pontiac,</i>	Household Science.
Perry, Mabel,	<i>Ann Arbor, Mich.,</i>	Lib., 2nd year.
Peterson, John Frederick,	<i>Kewanee,</i>	Civil Eng'g.
Phillips, Eugene Martin,	<i>Lena,</i>	General Science.
Pierce, Inez Charlotte,	<i>Portland, Ind.,</i>	Library, 2nd year.
Pitts, Florence Elizabeth,	<i>Bloomington,</i>	General, L. and A.
Polk, John Luther,	<i>Champaign,</i>	General, L. and A.
Popejoy, Lida Elizabeth,	<i>Lexington,</i>	General, L. and A.
Post, Raeborn Henry,	<i>Champaign,</i>	Mechanical Eng'g.
Powell, Jesse Roy,	<i>Streator,</i>	Chemistry.
Railsback, Lee Willard,	<i>Hopedale,</i>	General, L. and A.
Ranson, Clara Ann,	<i>Havanna,</i>	General, L. and A.
Readhimer, Jerome Edward,	<i>Normal,</i>	Agriculture.
Reef, Augustus Joseph,	<i>Carbondale,</i>	Civil Eng'g.
Renich, Edward Alexander,	<i>Woodstock,</i>	General, L. and A.
Rich, Claud Winferd,	<i>Cobden,</i>	General, L. and A.

Richards, Llewellyn Sylvester,	<i>Chicago,</i>	Mechanical Eng'g.
Ricker, Ethel,	<i>Urbana,</i>	Architecture.
Riddle, Rollo Gaun,	<i>Mattoon,</i>	Agriculture.
Riehl, Anna,	<i>Alton,</i>	Household Science.
Riley, George Albert,	<i>Lewistown,</i>	Electrical Eng'g.
Roberts, Carolyn Mabel, A. B., ( <i>Penn Coll.</i> ), 1898.	<i>Oskaloosa, Ia.,</i>	Lib., 1st year.
Rodman, Charles Scamon,	<i>Moweaqua,</i>	General, L. and A.
Roulston, Robert Bennett,	<i>Chicago,</i>	Civil Eng'g.
Royall, Charles Crecy,	<i>Clay Center, Kas.,</i>	Gen., L. and A.
Royce, Bertha Ella,	<i>Westfield, N. Y.,</i>	Lib., 2nd year.
Rump, Guy Henry,	<i>Quincy,</i>	Civil Eng'g.
Samson, Inez Rose,	<i>Urbana,</i>	General, L. and A.
Schaefer, Ellen Mary,	<i>Cambridge City, Ind.,</i>	Lib., 2nd yr.
Schreiber, Rudolph Ernst,	<i>Chicago,</i>	General, L. and A.
Seibel, Karl Bird,	<i>Manilus,</i>	Business.
Seymour, Arthur Pratt,	<i>Henning,</i>	Agriculture.
Seymour, Roy Vincent,	<i>Dwight,</i>	General, L. and A.
Sheldon, Charles Harper,	<i>Kewanee,</i>	Mechanical Eng'g.
Sheldon, Edna Weaver,	<i>Urbana,</i>	Library, 2nd yr.
Shilton, Carlyle Nance,	<i>Kewanee,</i>	Prep. to Medicine.
Shinn, James Ricketts,	<i>Mattoon,</i>	Agriculture.
Shoemaker, Theodora,	<i>Charleston,</i>	General, L. and A.
Sides, Aimee May,	<i>Champaign,</i>	General, L. and A.
Simpson, Carl William,	<i>Quincy,</i>	Civil Eng'g.
Slocum, Mary Jane,	<i>Urbana,</i>	General Science.
Smith, Esther Anna, A. B., ( <i>Univ. of Mich.</i> ) 1903.	<i>Saginaw, Mich.,</i>	Lib., 1st year.
Smith, Florence Sebring, A. M., ( <i>Univ. of Neb.</i> ), 1898.	<i>Lincoln, Neb.,</i>	Library, 1st year.
Smith, Henry William,	<i>Arcola,</i>	General Science.
Sommer, Clara Louise,	<i>Chicago,</i>	General, L. and A.
Sonntag, Mildred Eliza,	<i>Plainfield,</i>	General, L. and A.
Sparks, Annie Elnora,	<i>Urbana,</i>	General, L. and A.
Staley, Isabel,	<i>Champaign,</i>	General, L. and A.
Starr, Helen Knowlton, A. B., ( <i>Iowa Coll.</i> ) 1901.	<i>Aigona, Ia.,</i>	Library, 2nd year.
Stephenson, Lewis Alva,	<i>Redmon,</i>	Mechanical Eng'g.
Stewart, Robert Jaquess,	<i>Indianapolis, Ind.,</i>	Mech. Eng'g.
Stone, Charles Newhall,	<i>Quincy,</i>	Mechanical Eng'g.
Stookey, Helen Florence,	<i>Harristown,</i>	General, L. and A.

Stroud, Smith Leroy,	<i>Eureka,</i>	Civil Eng'g.
Sweet, Belle,	<i>Grangeville, Idaho,</i>	Lib., 2nd yr.
Switzer, Grace Ellen, Ph. B., ( <i>Univ. of Iowa</i> ), 1902.	<i>Iowa City, Ia.,</i>	Library, 1st yr.
Taylor, Elsie Mae,	<i>Champaign,</i>	Mathematics.
Taylor, George Graham,	<i>Taylorville,</i>	General, L. and A.
Taylor, John Orlo,	<i>Champaign,</i>	Electrical Eng'g.
Thompson, Sherman,	<i>Warrensburg,</i>	Architecture.
Timm, Peter Frederick William,	<i>Tuscola,</i>	Electrical Eng'g.
Travis, Roy Elmer,	<i>Assumption,</i>	Civil Eng'g.
Trimble, Clara Eugenia,	<i>Tremont,</i>	General, L. and A.
Turner, Charles Philip,	<i>Butler,</i>	Mechanical Eng'g.
Tuthill, Lewis Butler,	<i>Anna,</i>	General, L. and A.
Updike, Hector,	<i>St. Louis, Mo.</i>	Mechanical Eng'g.
Vance, Mahlon Smith,	<i>Champaign,</i>	General Science.
Vanhorne, George Garret,	<i>Rockford,</i>	Electrical Eng'g.
Vawter, John Terrell, Jr.,	<i>Vawter Park, Ind.,</i>	Architecture.
Waldo, Marie L, B. S., 1900,	<i>Champaign,</i>	Library, 2nd year.
Webber, Lorena Nell,	<i>Renwick, Ia.</i>	Library, 1st year.
Weeks, Harry William, A. B., ( <i>Lombard Coll.</i> ), 1900.	<i>Jackson, Mich.,</i>	Mechanical Eng'g.
Wehmeier, William Henry,	<i>Alton,</i>	Electrical Eng'g.
Wetzel, Nellie,	<i>Stonington,</i>	General, L. and A.
White, Anna David,	<i>Chicago,</i>	Library, 2nd year.
White, Caroline Louise,	<i>Warrensburg,</i>	General, L. and A.
Wilcox, Burton B,	<i>Kewanee,</i>	Chemistry.
Wiley, Carroll Carson,	<i>Bethany,</i>	Civil Eng'g.
Wiley, Frank Rudolph,	<i>Sullivan,</i>	General, L. and A.
Wiley, Wallace Kenneth,	<i>Peoria,</i>	Mechanical Eng'g.
Williams, Mary Edith,	<i>Urbana,</i>	General, L. and A.
Wilson, Charles Gorham,	<i>Urbana,</i>	General, L. and A.
Wilson, John Guy,	<i>Gays,</i>	General, L. and A.
Wilson, LeRoy C,	<i>Princeton,</i>	Agriculture.
Wing, Alice Louise,	<i>Ludington, Mich.,</i>	Lib., 2nd year.
Wise, Lewis W,	<i>Cerro Gordo,</i>	Agriculture.
Wittlinger, Emma Marie,	<i>Decatur,</i>	General, L. and A.
Woodin, Norman Charles,	<i>Rock Island,</i>	Mechanical Eng'g.
Work, Edna McCluskey,	<i>Rushville,</i>	General, L. and A.
Worker, Joseph Garfield,	<i>Davenport, Ia.,</i>	Mechanical Eng'g.
Worrell, Joseph Carl,	<i>Chili,</i>	Civil Eng'g.
Worthen, Edmund Louis,	<i>Warsaw,</i>	Agriculture.



Worthen, Ella Eugenia,	<i>Warsaw,</i>	General, L. and A.
Wright, Ida Faye,	<i>Evanston,</i>	Library, 2nd year.
Wright, Ward Ellis,	<i>Woodstock,</i>	Mechanical Eng'g.
Yocum, Earl Layton,	<i>Galva,</i>	General, L. and A.

## JUNIORS

Abrams, Duff A,	<i>Murphysboro,</i>	Civil Eng'g.
Akers, Milton Kent,	<i>Homer,</i>	Electrical Eng'g.
Allen, Grace Matilda,	<i>Wenona,</i>	General, L. and A.
Allen, Mary Elizabeth,	<i>Wenona,</i>	General, L. and A.
Allen, Paschal,	<i>Delavan,</i>	Agriculture.
Anders, Edwin,	<i>Newark,</i>	General, L. and A.
Anderson, Leslie Lee,	<i>Summer Hill,</i>	Agriculture.
Archer, Elmer Theodore,	<i>Little Rock, Ark.,</i>	Elect. Eng'g.
Armstrong, Chas. Edward,	<i>Mound City,</i>	Electrical Eng'g.
Bacon, Lewis Frank,	<i>South Haven, Mich.,</i>	Mech. Eng'g.
Bagley, Helen Antoinette,	<i>Oak Park,</i>	Library, L. and A.
Bailey, Thomas Stanley,	<i>Vincennes, Ind.,</i>	Chemistry.
Baker, Cecil Franklin,	<i>Champaign,</i>	Architecture.
Baker, Imo Estella,	<i>Champaign,</i>	General, L. and A.
Baker, Ira Webster,	<i>Champaign,</i>	General, L. and A.
Ballou, Frederick Herbert,	<i>Wheaton,</i>	Electrical Eng'g.
Barker, Mary Elton,	<i>Chicago,</i>	General, L. and A.
Barnard, Lela Ethelyn,	<i>Chicago,</i>	General, L. and A.
Barnhart, Jesse Melangthon,	<i>Mansfield,</i>	Chemistry.
Barry, Harold Bradford,	<i>Hillsboro,</i>	Civil Eng'g.
Bascom, George Rockwell,	<i>Chicago,</i>	Municipal Eng'g.
Bass, Willard Jason,	<i>Canton,</i>	Mechanical Eng'g.
Beasley, Fred Edward,	<i>Peoria,</i>	Mechanical Eng'g.
Beauford, May Alice,	<i>Oak Park,</i>	Classical.
Beck, Charles,	<i>Harvey,</i>	Mechanical Eng'g.
Betts, David Roy,	<i>Springfield,</i>	Mechanical Eng'g.
Blair, Franklin Irving,	<i>Compton,</i>	Civil Eng'g.
Bond, John Myron,	<i>Champaign,</i>	Mechanical Eng'g.
Boner, Halbert Evans,	<i>Wolcott, Ind.,</i>	Mechanical Eng'g.
Bonnell, Everett Shannon,	<i>La Moille,</i>	Mechanical Eng'g.
Bowser, Ralph Emmet,	<i>Bishop,</i>	Electrical Eng'g.
Braden, Clarence Arthur,	<i>Cutler,</i>	Agriculture.
Brayton, Abby,	<i>La Crosse, Wis.,</i>	Library.
Bronson, Frank Lloyd,	<i>Streator,</i>	Prep. to Medicine.
Brookings, Clara Allan,	<i>Du Quoin,</i>	General, L. and A.

Brush, Elizabeth Parnham,	<i>Carbondale,</i>	General, L. and A.
Brydges, Carl Kent,	<i>Elgin,</i>	Electrical Eng'g.
Bullard, Helen Elizabeth,	<i>Springfield,</i>	General, L. and A.
Burggraf, Carl Irvin,	<i>Tuscola,</i>	Civil Eng'g.
Burnett, William Thomas,	<i>Urbana,</i>	Electrical Eng'g.
Burroughs, Guy Chaney,	<i>Oregon,</i>	Architecture.
Burwash, Lois Irene,	<i>Champaign,</i>	General Science.
Butler, Besse Nola,	<i>Angola, Ind.,</i>	Library.
Calhoun, Helen Vera,	<i>Champaign,</i>	Library.
Camp, Cara Louis,	<i>Lincoln,</i>	Civil Eng'g.
Carleton, Bertha M.,	<i>Champaign,</i>	General, L. and A.
Carmichael, Berton Eugene,	<i>Rochelle,</i>	Agriculture.
Carr, Maurice LeRoy,	<i>Avon,</i>	Electrical Eng'g.
Casserly, Thomas David,	<i>Champaign,</i>	Mechanical Eng'g.
Caswell, Julia Ethele,	<i>Cairo,</i>	General, L. and A.
Caton, William Hull,	<i>Ottawa,</i>	Civil Eng'g.
Center, Orlo Dorr,	<i>Ottawa,</i>	Agriculture.
Chapin, George,	<i>Champaign,</i>	General, L. and A.
Charles, Paul Lamont,	<i>Woodstock,</i>	Mechanical Eng'g.
Chester, Anna,	<i>Champaign,</i>	General, L. and A.
Clark, Alice Harzel,	<i>Roswell, N. M.,</i>	Architecture.
Clark, Ella Hazel,	<i>Roswell, N. M.,</i>	Library, L. and A.
Clark, William Arthur,	<i>Urbana,</i>	Prep. to Medicine.
Clay, Marcia Barnes,	<i>North Bristol, O.,</i>	Library.
Clay, William Wharton,	<i>Chicago,</i>	Architectural Eng'g.
Clendenen, Lois Grace,	<i>Cairo,</i>	General, L. and A.
Cobb, Scott Ewing,	<i>Galesburg,</i>	Mechanical Eng'g.
Collins, Herbert Keith,	<i>Rock Island,</i>	Architectural Eng'g.
Collins, Mary,	<i>La Salle,</i>	General Science.
Corrin, William Garret,	<i>Neola, Ia.,</i>	Civil Eng'g.
Cox, Fred Augustus,	<i>Moline,</i>	Civil Eng'g.
Craig, Jennie Adah,	<i>Champaign,</i>	General, L. and A.
Crane, Helen Mary,	<i>Indianapolis, Ind.,</i>	Library.
Crawford, David Moffett,	<i>Champaign,</i>	Mechanical Eng'g.
Crosby, Clifford,	<i>Kewanee,</i>	General Science.
Curfman, Lawrence Everett,		
B. S., 1901,	<i>Urbana,</i>	Civil Eng'g.
Cutler, Frank Woodbury,	<i>Rockford,</i>	Mechanical Eng'g.
Dart, Whitman,	<i>Rock Island,</i>	Architecture.
Davidson, Thomas Meredith,	<i>Champaign,</i>	Civil Eng'g.
Davis, Anna Clara,	<i>Carbondale,</i>	Household Science.

Denny, Christina,	<i>Lincoln,</i>	Library, L. and A.
Dillavou, John Milford,	<i>De Land,</i>	General, L. and A.
Dosch, Charles Fred,	<i>Chicago,</i>	Mechanical Eng'g.
Drury, Francis Keese Wynkoop, A. B. ( <i>Rutgers Coll.</i> ), 1898,	<i>Ghent, N. Y.,</i>	Library.
Dunn, Joel Ernest,	<i>Bement,</i>	Civil Eng'g.
Eckhardt, William George,	<i>Buffalo Prairie,</i>	Agriculture.
Edmiston, Emma,	<i>Sullivan,</i>	General, L. and A.
Eiker, William Henry,	<i>Sparta,</i>	Civil Eng'g.
Elliott, Josephine Ruth,	<i>Sterling,</i>	Library.
Engel, Lloyd Edwin,	<i>Metamora,</i>	General, L. and A.
Ernest, Roy Alfred,	<i>Urbana,</i>	Electrical Eng'g.
Eustis, Laura Mae,	<i>Ottawa,</i>	General, L. and A.
Fitch, Robert Haynes,	<i>Galva,</i>	Mechanical Eng'g.
Fleming, Virvil R,	<i>Denver,</i>	Civil Eng'g.
Foskett, Ray Mortimer,	<i>Chicago,</i>	Mechanical Eng'g.
Fox, James Reuben,	<i>Rockford,</i>	Electrical Eng'g.
Franceway, Margaret,	<i>Granville,</i>	General, L. and A.
Garwood, Frank Sanders,	<i>Stonington,</i>	Agriculture.
Garwood, Herman Edwin,	<i>Stonington,</i>	Agriculture.
Garwood, Janet,	<i>Augusta,</i>	General Science.
Gilkerson, Thomas John,	<i>Urbana,</i>	Agriculture.
Gilmour, Joseph Coleman,	<i>Biggsville,</i>	Civil Eng'g.
Ginzel, Leo Arthur,	<i>Trenton,</i>	Civil Eng'g.
Godeke, Harry Fred,	<i>Olney,</i>	Mechanical Eng'g.
Goodspeed, Wilbur Fisk,	<i>Tuscola,</i>	Agriculture.
Grafius, Margaret Elizabeth,	<i>Chicago,</i>	Library.
Grantham, Arthur Elliott, A. B., ( <i>Ind. Univ.</i> ), 1903,	<i>Clarksville, Ind.,</i>	Agriculture.
Greenwood, Harris Paul,	<i>Edwardsville,</i>	Civil Eng'g.
Greer, Bertha Alice, A. B., ( <i>Univ. of Mo.</i> ), 1899,	<i>Joplin, Mo.,</i>	Library.
Gustafson, John Christopher,	<i>Chicago,</i>	Architectural Eng'g.
Hale, Arthur Aldrich,	<i>Derry, La.,</i>	Mechanical Eng'g.
Hamil, John Edward, B. S., ( <i>Lincoln Univ.</i> ), 1902,	<i>Middletown,</i>	Civil Eng'g.
Hannum, Myrtle Neta,	<i>Decatur,</i>	Mathematics.
Harney, John Matthew,	<i>Joliet,</i>	Chemistry.
Harper, Edith Elizabeth,	<i>Urbana,</i>	Library.
Harris, Chester Arthur,	<i>Lena,</i>	Prep. to Medicine.
Hawley, Clarence Ernest,	<i>Mendota,</i>	Civil Eng'g.

Hayward, Mabel Strickland,	<i>Ottawa,</i>	General, L. and A.
Hazen, Howard Spencer, Jr.,	<i>La Salle,</i>	Architectural Eng'g.
Hegnauer, Leonard, A. B., ( <i>Univ. of Kansas</i> ), 1900,	<i>Onarga,</i>	Agriculture.
Henning, Burt Lawton,	<i>Steward,</i>	Mechanical Eng'g.
Hildebrandt, Herman Carl Martin,	<i>Carpentersville,</i>	Classical.
Hildebrandt, Theophil Henry,	<i>Carpentersville,</i>	Math., L. and A.
Hill, Ida Myrtle,	<i>Champaign,</i>	General, L. and A.
Hillman, Frank William,	<i>Chicago,</i>	Civil Eng'g.
Hinman, Glidden,	<i>Dundee,</i>	General, L. and A.
Hofmann, Minnie,	<i>Ottumwa, Ia.,</i>	Library.
Houchens, Josie Batchelor, A. B. ( <i>H. Sophie Newcomb Coll.</i> ), 1903,	<i>New Orleans, La.</i>	Library.
Howell, Cleves Harrison, Ph. B. ( <i>Wooster Univ.</i> ), 1901,	<i>Keokuk, Ia.,</i>	Civil Eng'g.
Hughes, Smith Yule,	<i>Antioch,</i>	Mechanical Eng'g.
Humphrey, Guess, A. B. ( <i>Univ. of Neb.</i> ), 1902,	<i>Clifton, Kas.,</i>	Library.
Huntoon, Harry Alexander,	<i>Moline,</i>	Mechanical Eng'g.
Hyde, Sophie, A. B., 1903,	<i>Chicago,</i>	Library.
Johnson, Frank Peters,	<i>Chicago,</i>	Mechanical Eng'g.
Jones, Emelyn Ivor,	<i>Lexington,</i>	General, L. and A.
Kasten, Frederick William,	<i>Dolton Sta.,</i>	Civil Eng'g.
Keator, Jeanette,	<i>Polo,</i>	General, L. and A.
Keeler, Lawrence Swasey,	<i>Belvidere,</i>	Civil Eng'g.
Kenyon, Eugene Crouse,	<i>Peoria,</i>	Electrical Eng'g.
Kessler, Harvey Lameck,	<i>Smithboro,</i>	General, L. and A.
Kidder, Mrs. Ida Angeline,	<i>Cedar Rapids, Ia.,</i>	Lib., L. and A.
Kirk, Todd,	<i>Kirksville, Mo.,</i>	Civil Eng'g.
Kohn, Lydia Elizabeth,	<i>West Bay City, Mich.,</i>	Library.
Kramer, Gustave August,	<i>Blackstone,</i>	General, L. and A.
Krippner, John,	<i>Urbana,</i>	Civil Eng'g.
Lanham, Mariam Elizabeth,	<i>Osceola, Ia.,</i>	Prep. to Medicine.
Lenke, Edward Henry,	<i>Chicago,</i>	Civil Eng'g.
Lewis, Russell James,	<i>Denmark, Ia.,</i>	Civil Eng'g.
Logan, Chester R.,	<i>Urbana,</i>	Civil Eng'g.
Lucas, Mrs. Leonore B.,	<i>Urbana,</i>	General, L. and A.
Lundahl, Bruce Hjalmar,	<i>Gibson City,</i>	Mechanical Eng'g.
McCarthy, Estella May,	<i>Moline,</i>	General, L. and A.

McCracken, George Milas,	<i>Shelbyville,</i>	Architecture.
McNeill, Roscoe Plant,	<i>Greenville,</i>	General, L. and A.
Mann, Charles Judson,	<i>Gilman,</i>	Agriculture.
Marquiss, Franklin Wales,	<i>Bloomington,</i>	Mechanical Eng'g.
Marsh, Charles Mason,	<i>Upper Alton,</i>	General Science.
Marsh, Wallace Hickling,	<i>Marseilles,</i>	Architecture.
Martin, William Roy,	<i>Newton, Ia.,</i>	Architecture.
Mather, Donald Edward,	<i>Plainfield,</i>	Civil Eng'g.
Mather, Emery Thomas,	<i>Joliet,</i>	Electrical Eng'g.
Mather, Rose Margaret,	<i>Plainfield,</i>	General, L. and A.
Matousek, Joseph,	<i>Chicago,</i>	Civil Eng'g.
Maxfield, Leroy Haskell,	<i>Godfrey,</i>	Electrical Eng'g.
May, David Thorpe,	<i>Prophetstown,</i>	Mechanical Eng'g.
Medberry, Olive,	<i>Reynoldsburg, O.,</i>	Lib., L. and A.
Meharry, George Francis,	<i>Tolono,</i>	General, L. and A.
Meier, Ernest Edward,	<i>Chicago,</i>	Civil Eng'g.
Miller, Nellie Augusta,	<i>Urbana,</i>	Household Science.
Mitchell, Harry Scholey,	<i>Rock Island,</i>	Agriculture.
Montooth, Charles Stuart,	<i>Toulon,</i>	General, L. and A.
Morey, Henry Hiram,	<i>Greenville,</i>	General, L. and A.
Morgan, George Walker,	<i>Urbana,</i>	Civil Eng'g.
Morgan, Ora Sherman,	<i>Hampshire,</i>	General Science.
Morris, Sidney Dealey,	<i>Chicago,</i>	Electrical Eng'g.
Moss, Haven Haanel,	<i>Urbana,</i>	General, L. and A.
Moss, Mary Frances,	<i>Urbana,</i>	Classical.
Mountjoy, Oscar Francis,	<i>Atlanta,</i>	Agriculture.
Mueller, Walter Hermann,	<i>Chicago,</i>	Architectural Eng'g.
Myers, Estelle Lavinia,	<i>St. Louis, Mo.,</i>	Library.
Nichols, Emily Lavinia,	<i>Chicago,</i>	Library.
Nuckolls, Charles Morrison,	<i>Urbana,</i>	Mechanical Eng'g.
O'Connell, Charles Slade,	<i>Champaign,</i>	Civil Eng'g.
Olson, Blenda,	<i>Urbana,</i>	General, L. and A.
Pahmeyer, Fred Oscar,	<i>Decatur,</i>	Mechanical Eng'g.
Parker, Walter Haniman,	<i>Peoria,</i>	Architecture.
Parks, Mrs. Allie V,	<i>Urbana,</i>	General, L. and A.
Parrett, William Gaylord,	<i>Newport, Ind.,</i>	Civil Eng'g.
Pearson, John Winthrop,	<i>Chicago,</i>	Mechanical Eng'g.
Pegelow, Fred George,	<i>Chicago,</i>	Civil Eng'g.
Penfield, Albert Charles,	<i>Rogers Park,</i>	Electrical Eng'g.
Perry, Alphonso Lorenzo,	<i>Cornell,</i>	Mechanical Eng'g.
Perry, Walter Oliver,	<i>Cornell,</i>	Mechanical Eng'g.

Phillips, Grace Darling,	<i>Kansas City, Mo.,</i>	Library.
Phillips, Nelson Chancellor,	<i>Lena,</i>	Prep. to Medicine.
Pierce, Clarence Raymond,	<i>Elgin,</i>	Electrical Eng'g.
Pinkum, Anna Shaw, B. L. ( <i>Univ. of Wis.</i> ), 1899,	<i>Eau Claire, Wis.,</i>	Library.
Piper, Ellsworth Elmer,	<i>Chicago,</i>	Electrical Eng'g.
Pundunn, George Gould,	<i>Marshall,</i>	Mechanical Eng'g.
Randall, Frank Alfred,	<i>Cambridge,</i>	Civil Eng'g.
Rapp, Charles Edward,	<i>Jacksonville,</i>	Civil Eng'g.
Ray, Howard Alden,	<i>Libertyville,</i>	Electrical Eng'g.
Reat, Ruth,	<i>Charleston,</i>	Household Science.
Reese, Nelle Wheeler,	<i>Ravenna, O.,</i>	Mathematics.
Reid, Wilfred Ellis,	<i>Lacota, Mich.,</i>	Architecture.
Rein, Lester Edward,	<i>Chicago,</i>	Municipal Eng'g.
Renner, Edwin Theodore,	<i>Lanark,</i>	Civil Eng'g.
Richeson, Virginia Campbell,	<i>E. St. Louis,</i>	Household Science.
Roberts, Miriam Ellen,	<i>Ottawa,</i>	General, L. and A.
Roberts, Ralph Ousley,	<i>Keokuk, Ia.,</i>	Architecture.
Roney, William Hanson,	<i>Chicago,</i>	Civil Eng'g.
Rothgeb, Wade Hampton,	<i>Wellington,</i>	Business.
Roy, Howard Meek,	<i>Anna,</i>	Civil Eng'g.
Rubey, Harry Kelly,	<i>St. Louis, Mo.,</i>	Civil Eng'g.
Saliba, Habeeb Thannous,	<i>Cairo,</i>	General, L. and A.
Samson, George Roy, A. B., 1902,	<i>Urbana,</i>	Agriculture.
Sawyer, Fred Scott,	<i>Chicago,</i>	Civil Eng'g.
Scherer, Josephine,	<i>Murphysboro,</i>	General, L. and A.
Schmidt, Hugo,	<i>Chicago,</i>	Civil Eng'g.
Schutt, Alfred George,	<i>Belleville,</i>	Civil Eng'g.
Seymour, Claude Henrickson,	<i>Elgin,</i>	Civil Eng'g.
Shilton, Paul Adyman,	<i>Kewanee,</i>	Business.
Shipman, Andrew Bradt,	<i>DeKalb,</i>	Mechanical Eng'g.
Shoemaker, John Earl A. B., 1903,	<i>Charleston,</i>	Civil Eng'g.
Shuler, Jane Elspeth,	<i>Davenport, Ia.,</i>	Household Science.
Sims, Charles Edward,	<i>Lincoln,</i>	Civil Eng'g.
Sisler, Della Jarrett,	<i>Emporia, Kas.,</i>	Library.
Skelley, Charles Edward,	<i>DeKalb,</i>	Mechanical Eng'g.
Sloan, Hazel,	<i>Helena, Mont.,</i>	General, L. and A.
Smith, Charles Wesley, A. B., 1903,	<i>Lockwood, N. Y.,</i>	Library.
Smith, Edwin Raymond,	<i>Champaign,</i>	General, L. and A.

Smith, Fred,	<i>Alexis,</i>	Electrical Eng'g.
Sommer, Alfred,	<i>Chicago,</i>	Mechanical Eng'g.
Spitler, Wesley Newton,	<i>Mattoon,</i>	Electrical Eng'g.
Stedman, Angeline Jones,	<i>Champaign,</i>	General, L. and A.
Steinwedell, Carl, B. S., 1903,	<i>Quincy,</i>	Mechanical Eng'g.
Storm, Howard Charles,	<i>Lockport,</i>	General, L. and A.
Sullivan, Ira Etta,	<i>Zionsville, Ind.,</i>	Library.
Swenson, Beatrice Lillian,	<i>Chicago,</i>	Library.
Swenson, Cara Frances, A. B. ( <i>Rockford Coll.</i> ), 1903,	<i>Chicago,</i>	Library.
Sype, George,	<i>Fairbury,</i>	General, L. and A.
Taylor, Ruth Beatrice,	<i>Champaign,</i>	General, L. and A.
Thayer, William Sumner,	<i>Chicago,</i>	Electrical Eng'g.
Thomas, Moses Edgar,	<i>Homer,</i>	Civil Eng'g.
Thompson, James Arthur,	<i>Layton,</i>	Agriculture.
Trams, Albert Francis,	<i>Champaign,</i>	General, L. and A.
Triebel, Albert Fred,	<i>Peoria,</i>	Architectural Eng'g.
VanPetten, Albert Alexander,	<i>Elmwood,</i>	Civil Eng'g.
Voss, Sophie Mary,	<i>Champaign,</i>	Music.
Wagenseil, Edgar White,	<i>Port Huron, Mich.,</i>	Mech. Eng'g.
Warder, Laura Belle,	<i>Marion,</i>	General, L. and A.
Warner, William Herbert,	<i>Dixon,</i>	Civil Eng'g.
Warnock, Arthur Ray,	<i>Mason City,</i>	Classical.
Watrous, Chris Beach,	<i>Hampshire,</i>	Mechanical Eng'g.
Weinberger, Samuel Harold,	<i>Hawthorne,</i>	Civil Eng'g.
Wheeler, Edmund Burke,	<i>Bellflower,</i>	Electrical Eng'g.
White, Hilda Kirke,	<i>St. Joseph, Mo.,</i>	General, L. and A.
Whitten, Charles William,	<i>Urbana,</i>	General, L. and A.
Wilt, Alva Lewis,	<i>Lake City,</i>	General Science.
Winders, Frank Rae,	<i>Urbana,</i>	Electrical Eng'g.
Wray, Harriette,	<i>Winnnebago,</i>	General, L. and A.
Yolton, Robert Elgene,	<i>Avena,</i>	Civil Eng'g.

## SOPHOMORES

Abbott, Edwina Eunice,	<i>Oak Park,</i>	General, L. and A.
Adams, Leason Heberling,	<i>Taylorville,</i>	Chem. and Eng'g.
Agnew, Ralph,	<i>Chesaning, Mich.,</i>	Civil Eng'g.
Albertson, Edwin Ellsworth,	<i>St. Johns, Mich.,</i>	Gen., L. and A.
Allen, Edward Riley,	<i>Pana,</i>	Agriculture.
Allinson, May,	<i>Champaign,</i>	General, L. and A.
Alverson, Eva Luella,	<i>Champaign,</i>	Latin and Mod. Lang.

Amrine, Thomas Hamer,	<i>Vermont,</i>	Electrical Eng'g.
Anderson, Frank Oscar Albin,	<i>Paxton,</i>	Electrical Eng'g.
Andrew, Charles Edward,	<i>Paines Point,</i>	Civil Eng'g.
Applegate, Frank G,	<i>Atlanta,</i>	Architecture.
Archer, Charley Lehman,	<i>Carmi,</i>	General, L. and A.
Arizpe, Jesus de Valle,	<i>Saltillo, Mex.,</i>	Electrical Eng'g.
Armeling, Henry Richard,	<i>Mason City,</i>	Civil Eng'g.
Atkinson, Helen Marie,	<i>Champaign,</i>	General, L. and A.
Augustinus, Paul,	<i>Evanston,</i>	Electrical Eng'g.
Baker, Eleanor Mary,	<i>Champaign,</i>	General, L. and A.
Bannon, James Leo,	<i>Joliet,</i>	Civil Eng'g.
Bard, Jacob William,	<i>Quincy,</i>	Electrical Eng'g.
Barickman, Ralph Elvin,	<i>Streator,</i>	Electrical Eng'g.
Barr, Susan Jessie,	<i>Urbana,</i>	Household Science.
Barto, Philip Stephan,	<i>Urbana,</i>	General, L. and A.
Bates, Charles Richard,	<i>Camp Point,</i>	Prep. to Medicine.
Bates, Robert Paul,	<i>Bloomington,</i>	Civil Eng'g.
Bauer, Effie Lucy,	<i>Champaign,</i>	General, L. and A.
Baughman, John Franklin,	<i>Olney,</i>	Chemistry.
Baxter, Emile Miles,	<i>Nauvoo,</i>	Mechanical Eng'g.
Beall, Elizabeth Marsden,	<i>Alton,</i>	General, L. and A.
Bear, Fred Gamble,	<i>Farmington,</i>	Civil Eng'g.
Bell, Clement Henry,	<i>Pontiac,</i>	Electrical Eng'g.
Belting, Flora Pearl Mabel,	<i>Mattoon,</i>	General Science.
Bench, Alfred Ritscher,	<i>Galena,</i>	Mechanical Eng'g.
Bennett, Rolland Harold,	<i>Chicago,</i>	Electrical Eng'g.
Bent, Charles Howard,	<i>Chicago,</i>	Mechanical, Eng'g.
Bergert, Henry Amos,	<i>Moline,</i>	Electrical Eng'g.
Berolzheimer, Teresa Ruth,	<i>Chicago Heights,</i>	Chemistry.
Bethel, Charles Hugh,	<i>Plainfield,</i>	Electrical Eng'g.
Blake, Frank Edmund,	<i>Watseka,</i>	General, L. and A.
Boggs, Fred Stanley,	<i>Urbana,</i>	Music.
Bond, Claude Hollett,	<i>Geneva, N. Y.,</i>	Electrical Eng'g.
Bond, Lyda,	<i>Charleston,</i>	General, L. and A.
Boone, Charles Guthrie,	<i>Chrisman,</i>	Electrical Eng'g.
Bradley, Tirzah Ozilla,	<i>Blue Mound,</i>	General, L. and A.
Brearley, Walter Edward,	<i>Rockford,</i>	Agriculture.
Brightman, Morgan Holmes,	<i>Elgin,</i>	Electrical Eng'g.
Brown, Benjamin Ross,	<i>St. Louis, Mo.,</i>	Civil Eng'g.
Brown, Roy Hamlin,	<i>Sycamore,</i>	General, L. and A.
Brown, William Edward,	<i>Port Byron,</i>	Architectural Eng'g.



Brush, Daniel Harmon, Jr.,	<i>Carbondale,</i>	Civil Eng'g.
Bryan, Helen Gordon,	<i>Champaign,</i>	General, L. and A.
Bullard, Edwin Elliott,	<i>Springfield,</i>	Electrical Eng'g.
Bumann, Cecil Spencer,	<i>Bunker Hill,</i>	Civil Eng'g.
Bumstead, Frank Melvin,	<i>Dundee,</i>	General, L. and A.
Burkhalter, Ralph Marks,	<i>Peoria,</i>	Civil Eng'g.
Burr, Elizabeth Hal,	<i>Champaign,</i>	Music.
Bush, James Ackerman,	<i>Chicago,</i>	Agriculture.
Butler, William Pinkney,	<i>Marshall, Tex.,</i>	General L. and A.
Butzow, Louis James,	<i>Sidney,</i>	Electrical Eng'g.
Caldwell, Harry Lind,	<i>Chicago Heights.</i>	Elec. Eng'g.
Callan, John Albert,	<i>Gifford,</i>	Civil Eng'g.
Carter, Allan John,	<i>Chicago,</i>	General, L. and A.
Carter, Ralph Merle,	<i>Decatur,</i>	Prep. to Medicine.
Cavazos, Enrique,	<i>Saltillo, Mex.,</i>	Civil Eng'g.
Christiansen, Johanna Christiana Mathea,	<i>Chicago,</i>	General, L. and A.
Clark, John Ruskin,	<i>Elvaston,</i>	General, L. and A.
Close, George Frederick,	<i>Aledo,</i>	General, L. and A.
Coleman, George Howell,	<i>Chicago,</i>	Prep. to Medicine.
Coleman, John Samuel,	<i>Beardstown,</i>	Business.
Comstock, Arthur Francis,	<i>Joliet,</i>	Civil Eng'g.
Conard, Sarah Orvilla,	<i>Monticello,</i>	Classical.
Cone, Wilbur Charles,	<i>Loda,</i>	Mechanical Eng'g.
Cook, Clarabelle,	<i>Urbana,</i>	General, L. and A.
Cook, Louis Phillip,	<i>Quincy,</i>	Electrical Eng'g.
Cook, Thomas L,	<i>Mt. Pulaski,</i>	General, L. and A.
Corrigan, Edward,	<i>New Berlin,</i>	General, L. and A.
Cox, Irving Hughey,	<i>Mattoon,</i>	Civil Eng'g.
Cromer, Alba Cornelious Honey- well,	<i>Hoopeston,</i>	Agriculture.
Curtis, Robert Rice, B. S., ( <i>Knox Coll.</i> ), 1901,	<i>Urbana,</i>	Architectural Eng'g.
Cutler, Asa Bryant,	<i>Rockford,</i>	Civil Eng'g.
Danely, Paul,	<i>Urbana,</i>	Agriculture.
Davis, Belma Mary,	<i>Mt. Zion,</i>	Library, L. and A.
Davis, Forrest Spurgeon,	<i>Urbana,</i>	General, L. and A.
Davison, Margaret White,	<i>Monticello,</i>	Prep. to Medicine.
Day, Winfield Scott,	<i>Roseville,</i>	General Science.
Dayton, Susan LaRue,	<i>Paris,</i>	General, L. and A.
Deason, Francis Ellery,	<i>Murphysboro,</i>	Agriculture.

Demitz, Charles Henry,	<i>Baltimore, Md.,</i>	Arch. Eng'g.
De Puy, Jessie Maude,	<i>Urbana,</i>	General, L. and A.
De Puy, Orval Carl,	<i>Urbana,</i>	General, L. and A.
Derrick, Robert,	<i>Geneva,</i>	Electrical Eng'g.
Derwent, Everett Foster,	<i>Pecatonica,</i>	Civil Eng'g.
Dewey, Charles Benjamin,	<i>Henry,</i>	General, L. and A.
Dewey, Homer Harry,	<i>Henry,</i>	General, L. and A.
Dillon, Fred Paul,	<i>Chicago,</i>	Civil Eng'g.
Docker, William Frederick,	<i>Chicago,</i>	Civil Eng'g.
Dolan, Charles Mark,	<i>Ohio,</i>	Electrical Eng'g.
Donoghue, George Terry,	<i>Chicago,</i>	Civil Eng'g.
Dool, Robert Beatty,	<i>Aledo,</i>	Electrical Eng'g.
Doran, Edwin Beale,	<i>Dayton, O.,</i>	Agriculture.
Doughty, Ivan Fremont,	<i>Westville,</i>	Civil Eng'g.
Drew, Don John Charles,	<i>Watseka,</i>	Electrical Eng'g.
Dunlap, Albert Menzo,	<i>Savoy,</i>	Prep. to Medicine.
Edwards, John Isaac,	<i>Aledo,</i>	Electrical Eng'g.
Eiserer, Charles Emil,	<i>Chicago,</i>	Mechanical Eng'g.
Emerson, Frederic Hood,	<i>Rockford,</i>	Electrical Eng'g.
Enlow, Lena,	<i>Chicago,</i>	General, L. and A.
Erickson, Cecil Claire,	<i>Farmer City,</i>	General, L. and A.
Evans, Robin Mills,	<i>Winfield, Kas.,</i>	Mechanical Eng'g.
Fairweather, Charles Arthur,	<i>McLeansboro,</i>	Civil Eng'g.
Ferry, Leroy Clark,	<i>Warrensburg,</i>	Mechanical Eng'g.
Fischer, Carl Henry,	<i>Carrollton,</i>	Electrical Eng'g.
Fisher, Roy Savage,	<i>Litchfield,</i>	Electrical Eng'g.
Fleming, Rose Eilene,	<i>Bement,</i>	General, L. and A.
Flowers, Roy Warner,	<i>Quincy,</i>	Architectural Eng'g.
Forrest, Elizabeth,	<i>Chicago,</i>	Library, L. and A.
Foster, Orrington Cyrenius, Jr.,	<i>Chicago,</i>	Mechanical Eng'g.
Franklin, Howard Brace,	<i>Harvey,</i>	Railway Eng'g.
Freebern, Walter Holsburg,	<i>Plano,</i>	Prep. to Medicine.
Freeman, Julian Bryant,	<i>Princeton,</i>	Mechanical Eng'g.
Frost, John Henry,	<i>Chicago,</i>	Civil Eng'g.
Fucik, John, Jr.,	<i>Chicago,</i>	Civil Eng'g.
Gallaher, George Puffer,	<i>Mt. Palatine,</i>	Political Science.
Galloway, William James,	<i>Deerfield,</i>	Mechanical Eng'g.
Garm, Clarence Clifford,	<i>Beardstown,</i>	Business.
Gill, Thomas Edward,	<i>Pecatonica,</i>	Chemistry.
Gladden, Bertha,	<i>Urbana,</i>	General, L. and A.
Glass, John Burr,	<i>Taylorville,</i>	Mechanical Eng'g.

Glidden, Lola Blanche,	<i>Galva,</i>	General, L. and A.
Goff, Lutie Azuba,	<i>Rantoul,</i>	General, L. and A.
Gore, Arthur Earl,	<i>Havana,</i>	Civil Eng'g.
Graff, Elizabeth,	<i>Champaign,</i>	General, L. and A.
Graham, Douglas Basil Adair,	<i>Riverside,</i>	Civil Eng'g.
Grandpré, Ambrose Goulet,	<i>Chicago,</i>	Civil Eng'g.
Greenman, Clarence Paine,	<i>Champaign,</i>	Agriculture.
Gregory, Walter Herbert,	<i>Moweaqua,</i>	General, L. and A.
Gulick, Byron Allen,	<i>Champaign,</i>	Civil Eng'g.
Gunn, Alexander Hunter,	<i>Evanston,</i>	Architectural Eng'g.
Haase, Herbert Emil,	<i>Oak Park,</i>	Municipal Eng'g.
Hachmeister, Henry William,	<i>Chicago,</i>	Chemical Eng'g.
Hall, Ellis Bernard,	<i>Urbana,</i>	Chemistry.
Hall, Grace Evalyn,	<i>Urbana,</i>	General, L. and A.
Hammers, Lilian,	<i>Champaign,</i>	General, L. and A.
Hanstein, Carl Menelaus,	<i>Chicago,</i>	Mechanical Eng'g.
Harding, Albert Austin,	<i>Paris,</i>	Municipal Eng'g.
Hardy, Bert William,	<i>Griggsville,</i>	Prep. to Medicine.
Harmon, Ivan Guy,	<i>Flora,</i>	Civil Eng'g.
Hart, Mabel Baldwin,	<i>Champaign,</i>	General, L. and A.
Hawthorne, Leo,	<i>Oregon,</i>	Mechanical Eng'g.
Hays, George Renwick,	<i>Houston,</i>	Prep. to Medicine.
Headen, Mary Frances,	<i>Shelbyville,</i>	Music.
Hedges, Joseph Logan,	<i>Peckham, Okla.,</i>	Electrical Eng'g.
Hegenbart, Frank Anthony,	<i>Champaign,</i>	Mechanical Eng'g.
Henderson, Charles Elliott,	<i>Gerlaw,</i>	Civil Eng'g.
Henning, Warren Kenyon,	<i>Plano,</i>	Mechanical Eng'g.
Hewes, Clarence Avise,	<i>Quincy,</i>	Civil Eng'g.
Hewes, Floyd Sinnock,	<i>Quincy,</i>	Civil Eng'g.
Hickling, Clarence Laken.	<i>Ottawa,</i>	Civil Eng'g.
Higgins, Allen Leet,	<i>Elmwood,</i>	Agriculture.
Higgins, Daniel Franklin,	<i>Joliet,</i>	General Science.
Higinbotham, Pearl,	<i>Champaign,</i>	General, L. and A.
Hill, Mary Bluebell,	<i>Champaign,</i>	General, L. and A.
Hinman, John Harmon,	<i>Mt. Vernon,</i>	Electrical Eng'g.
Hoff, Leigh Patridge,	<i>Chicago Heights,</i>	Electrical Eng'g.
Hoffman, Frank Gordon,	<i>Ramsey,</i>	Civil Eng'g.
Holl, Charles Ludwig,	<i>Streator,</i>	Mechanical Eng'g.
Hook, Henry Hudson,	<i>Vienna,</i>	Mechanical Eng'g.
Howe, Paul Edward,	<i>Urbana,</i>	Chemical Eng'g.
Hubbart, Guy,	<i>Philo,</i>	Business.

Huff, Nolan Hynson,	<i>Center,</i>	Political Science.
Hughes, Anna Raphael,	<i>Champaign,</i>	Music.
Hughes, Charles Herbert,	<i>Fairmount,</i>	Mechanical Eng'g.
Hunt, Glenne,	<i>Dana, Ind.,</i>	Library, L. and A.
Hunter, Flora Vimont,	<i>Washington, Ky.,</i>	Lib., L. and A.
Irwin, Daisy Dell,	<i>Long View,</i>	General, L. and A.
Jackson, Litta Dustin,	<i>Clinton, Ia.,</i>	Library, L. and A.
Jacobsen, Noah Henning,	<i>Niantic,</i>	Civil Eng'g.
James, Leonard Vaughan,	<i>Amboy,</i>	Electrical Eng'g.
Jarman, Patience Emelyn,	<i>Elmwood,</i>	Music.
Johnson, Alice Sarah,	<i>Champaign,</i>	Library, L. and A.
Johnson, George Thompson,	<i>Champaign,</i>	Prep. to Medicine.
Johnston, Ora Birney,	<i>Lexington,</i>	Agriculture.
Johnstone, Guy Carlyle,	<i>Bloomington,</i>	Agriculture.
Jones, Truman N,	<i>Aurora,</i>	Mechanical Eng'g.
Jordan, John Garfield,	<i>Savoy,</i>	Mechanical Eng'g.
Kanne, Walter John,	<i>Waterville, Minn.,</i>	Mech. Eng'g.
Keil, Edwin Louis,	<i>Beardstown,</i>	Business.
Kemp, Jacob Garrett,	<i>Baltimore, Md.,</i>	Electrical Eng'g.
Kidder, Albert Franklin,	<i>Farmington,</i>	Agriculture.
Kilpatrick, Mabel,	<i>Little Rock, Ark.,</i>	Gen., L. and A.
Kimball, Robert Haskell,	<i>Rockford,</i>	Business.
King, Paul Wheelock,	<i>Payson,</i>	Civil Eng'g.
Kirkwood, Arthur William,	<i>Chicago,</i>	Business.
Kirley, John Thomas,	<i>Kewanee,</i>	Civil Eng'g.
Klein, David,	<i>Chicago,</i>	Chemistry.
Kline, Ida May,	<i>Bloomington,</i>	General, L. and A.
Kline, William Gordon,	<i>Amboy,</i>	General, L. and A.
Knorr, Louis Solliday,	<i>Chicago,</i>	Civil Eng'g.
Kohout, George Anton,	<i>Chicago,</i>	Electrical Eng'g.
Kunkle, Roy Delos,	<i>Peoria,</i>	Mechanical Eng'g.
Lapham, Ina Oliva,	<i>Champaign,</i>	General, L. and A.
Larson, Charles Andrew,	<i>Paxton,</i>	Mechanical Eng'g.
Latzer, Lenore Lydia,	<i>Highland,</i>	General Science.
Leonard, Edith,	<i>Urbana,</i>	Architecture.
Lewis, Burt A,	<i>W. Mitchell, Ia.,</i>	Arch. Eng'g.
Liggett, Frederick Manley,	<i>Hamburg, Ia.,</i>	Architecture.
Little, Charles Edwin,	<i>Sycamore,</i>	Mechanical Eng'g.
Llewellyn, Ralph Corson,	<i>La Grange,</i>	Architectural Eng'g.
Lloyd, Jennie Mae,	<i>Farmersville,</i>	General, L. and A.
Logan, Clarence Chester,	<i>Flora,</i>	Agriculture.

Long, Roy Harold,	<i>Lexington,</i>	Agriculture.
Long, Troy Lovell,	<i>Morrisonville,</i>	General, L. and A.
McCarty, Lawrence Justin,	<i>Sioux City, Ia.,</i>	Architecture.
McCoy, Joseph,	<i>Lafayette, Ind.,</i>	Architecture.
McCully, Clinton Thomas,	<i>Champaign,</i>	General, L. and A.
McDonough, Adelaide Belle,	<i>Winchester,</i>	General, L. and A.
McDougall, Agnes,	<i>Ottawa,</i>	General, L. and A.
McIntire, James Franklin,	<i>Farmer City,</i>	Architecture.
McIntire, Mamie Minerva,	<i>Sparta,</i>	General, L. and A.
McKelvey, Frank Hotchkiss,	<i>Sparta,</i>	General, L. and A.
McKinnie, Eva May,	<i>Empire,</i>	General, L. and A.
Mann, Kate Bonnell,	<i>Muskegon, Mich.,</i>	Gen., L. and A.
Manspeaker, Berta Harding,	<i>Champaign,</i>	General, L. and A.
Marshall, Reuben S,	<i>Mt. Morris,</i>	Electrical Eng'g.
Marvel, John Everett,	<i>Waynesville,</i>	Prep. to Medicine.
Massey, Esther,	<i>Urbana,</i>	General, L. and A.
Meadows, David Stanley,	<i>Chicago,</i>	Civil Eng'g.
Meharry, Edwin Thomas,	<i>Tolono,</i>	Agriculture.
Mehren, Edward John, A. B.		
( <i>St. Ignatius Coll.</i> ), 1901,	<i>Chicago,</i>	Civil Eng'g.
Meissner, Josephine Augusta,	<i>York, Neb.,</i>	Library, L. and A.
Melby, James Alexander,	<i>Chicago,</i>	Architectural Eng'g.
Melvin, Leon Russell,	<i>Greenfield,</i>	Agriculture.
Miller, Alexander Austin,	<i>Aurora,</i>	Electrical Eng'g.
Miller, Daisy Mary,	<i>Urbana,</i>	Household Science.
Miller, Donald S,	<i>Geneva,</i>	Chemical Eng'g.
Miller, John Glenn,	<i>Galesburg,</i>	Architectural Eng'g.
Miszeiko, Vincent,	<i>Linkov, Russia,</i>	Mech. Eng'g.
Monier, James Henry,	<i>Champaign,</i>	Civil Eng'g.
Monier, Sara,	<i>Champaign,</i>	Music.
Moore, Charles Lawrence,	<i>Urbana,</i>	Mechanical Eng'g.
Moore, Francis Guy,	<i>Champaign,</i>	Mechanical Eng'g.
Morgan, Horace Healy,	<i>Loda,</i>	Mechanical Eng'g.
Moschel, Louis Conrad,	<i>Morton,</i>	Business.
Mosiman, Levi,	<i>Morton,</i>	Electrical Eng'g.
Moss, Myrtle Lucy,	<i>Champaign,</i>	Music.
Mulberry, Grace Pearl,	<i>Taylorville,</i>	General, L. and A.
Murphy, Edwin Roy,	<i>Champaign,</i>	Prep. to Medicine.
Musselman, Virgil George,	<i>Quincy,</i>	General, L. and A.
Myers, Henry Beck,	<i>Springfield,</i>	Civil Eng'g.
Myers, Wissie Etha,	<i>Champaign,</i>	Music.

Needham, John Lowry,	<i>Neoga,</i>	Mechanical Eng'g.
Newcomb, Jessie Ruth,	<i>Champaign,</i>	General, L. and A.
Newman, Mary Emma,	<i>Elgin,</i>	Household Science.
Nichol, Agnes Elaine,	<i>Urbana,</i>	Library, L. and A.
Nichol, Anice Eunice,	<i>Urbana,</i>	Library, L. and A.
Nielsen, Joseph Nicolay,	<i>Chicago,</i>	Mechanical Eng'g.
Norris, John Fulton,	<i>Anna,</i>	Mechanical Eng'g.
North, Howard Peter,	<i>El Paso,</i>	Civil Eng'g.
Nutting, Harry George Dallas,	<i>Rock Island,</i>	Mechanical Eng'g.
Nydegger, John,	<i>Danville,</i>	Mechanical Eng'g.
O'Hair, Lulu Claire,	<i>Laurel, Ind.,</i>	General, L. and A.
Oldefest, Edward George,	<i>Moline,</i>	Architecture.
Page, Carlos Merriam,	<i>Richburg, N. Dak.,</i>	Elec. Eng'g.
Palmer, Ann Adelia,	<i>Monticello,</i>	General, L. and A.
Parish, Dwight Armistead,	<i>Springfield,</i>	Civil Eng'g.
Parr, Rosalie Mary,	<i>Mapleton,</i>	General, L. and A.
Paton, Walter Coffman,	<i>Kansas City, Kas.,</i>	Mech. Eng'g.
Pepper, Curtis Gordon,	<i>Champaign,</i>	Mechanical Eng'g.
Percival, Avis Hortense,	<i>Urbana,</i>	General, L. and A.
Perreault, Morris Seraph,	<i>St. Anne,</i>	Civil Eng'g.
Pettinger, Walter Thomas,	<i>Cumberland, Ia.,</i>	Electrical Eng'g.
Poirot, Aloys Philip,	<i>Belleville,</i>	Civil Eng'g.
Pollard, Willard Lacy,	<i>Little York,</i>	Mechanical Eng'g.
Pope, George Samuel,	<i>Kane,</i>	Electrical Eng'g.
Porter, James Albert,	<i>Arcola,</i>	General, L. and A.
Porterfield, M Raymond,	<i>Fairmount,</i>	Civil Eng'g.
Post, Royal Elmer,	<i>Rochester, N. Y.,</i>	Civil Eng'g.
Pray, Ralph Marble,	<i>Chicago,</i>	Business.
Putting, Oscar John,	<i>Springfield,</i>	General, L. and A.
Quick, Samuel Ritchie,	<i>Ft. Collins, Colo.,</i>	Architecture.
Ray, Arthur Jay,	<i>Cuba,</i>	Electrical Eng'g.
Reed, Oliver Roy,	<i>Chicago,</i>	Civil Eng'g.
Regan, Ralph Howard,	<i>Chicago,</i>	Mechanical Eng'g.
Reynolds, Frank Howard,	<i>Moline,</i>	Civil Eng'g.
Rich, Charles Clyde,	<i>Washington,</i>	Architecture.
Roberts, Kathleen Alice,	<i>Champaign,</i>	General, L. and A.
Roberts, Louis Paul,	<i>Lacon,</i>	Mechanical Eng'g.
Robinson, Harrison Franklin,	<i>Mattoon,</i>	Architecture.
Robinson, Ward Reid,	<i>Springfield,</i>	Civil Eng'g.
Rodriguez, Roberto Segundo,	<i>Saltillo, Mex.,</i>	Arch. Eng'g.
Rogers, Edith,	<i>Windsor.</i>	General, L. and A.

Rohkam, Henry,	<i>Chicago,</i>	Architecture.
Ross, Lloyd Elliott,	<i>White Hall,</i>	Electrical Eng'g.
Rowand, Kile Edward,	<i>Sidell,</i>	Political Science.
Roy, Archie Bertrand,	<i>Harvey,</i>	Mechanical Eng'g.
Rump, Charlie Albert,	<i>Quincy,</i>	Civil Eng'g.
Saathoff, George Webster,	<i>Litchfield,</i>	Electrical Eng'g.
Sachse, William Gustavous,	<i>Morris,</i>	Prep. to Medicine.
Sanford, Edwin William,	<i>Moline,</i>	Civil Eng'g.
Schmahl, Myron Roy,	<i>Aurora,</i>	Electrical Eng'g.
Schoeller, Julius Ernest,	<i>Chicago,</i>	Civil Eng'g.
Schott, Frederick, Jr.,	<i>Chicago,</i>	Architecture.
Schroeder, Charles Ward,	<i>Joliet,</i>	Business.
Seavert, Norman Edward,	<i>Chicago,</i>	Civil Eng'g.
Shaw, James William,	<i>Springfield,</i>	Mechanical Eng'g.
Slater, Willis Appleford,	<i>Polo,</i>	Civil Eng'g.
Slocum, Fielder,	<i>Urbana,</i>	Mechanical Eng'g.
Smith, Alfred Glaze,	<i>Champaign,</i>	Agriculture.
Smith, Russell Nellis,	<i>Abingdon,</i>	Civil Eng'g.
Smith, Valentine,	<i>Urbana,</i>	General, L. and A.
Snider, Earl Quinter,	<i>Cerro Gordo,</i>	General Science.
Snow, Louis Frederick,	<i>Chadwick,</i>	Chemistry.
Standard, William Logan,	<i>Lewistown,</i>	Electrical Eng'g.
Stanley, Arba Porter,	<i>Ashtabula, O.,</i>	Mechanical Eng'g.
Stanley, Edgar Albert,	<i>Ashtabula, O.,</i>	Architecture.
Stark, Ralph,	<i>Delwood,</i>	Mechanical Eng'g.
Stevens, Sabra Elizabeth,	<i>Mahomet,</i>	General, L. and A.
Stevenson, Annie Nicewander,	<i>Nebraska City, Neb.,</i>	H'd Science.
Stookey, Marshall Childs,	<i>Harristown,</i>	Civil Eng'g.
Stowe, Loyd Richard,	<i>Greenville,</i>	Mechanical Eng'g.
Strawn, Myrtle,	<i>Albion,</i>	Household Science.
Stromberg, Julian Willis,	<i>Chicago,</i>	Civil Eng'g.
Strong, Ralph Stillman,	<i>Chicago,</i>	Mechanical Eng'g.
Sudro, William Frederick,	<i>Elyria, O.,</i>	Prep. to Medicine.
Suttle, Clifford, Bradley,	<i>Kenney,</i>	Civil Eng'g.
Swanberg, Helena May,	<i>Danville,</i>	Mathematics.
Swart, Harmon Veeder,	<i>Kewanee,</i>	Electrical Eng'g.
Taylor, Dalla Alice,	<i>Champaign,</i>	Music.
Taylor, Ethel Nichols,	<i>Olney,</i>	General, L. and A.
Thomas, Alfred Monroe,	<i>Tampico,</i>	Architectural Eng'g.
Thompson, Estelle,	<i>Moweaqua,</i>	General, L. and A.
Tomlinson, Bennie,	<i>Champaign,</i>	General, L. and A.

Toops, George Noble,	<i>Champaign,</i>	Civil Eng'g.
Towle, Almon Ira,	<i>Peoria,</i>	Mechanical Eng'g.
Townsend, Robert David,	<i>Chicago,</i>	Mechanical Eng'g.
Townsend, Rolla Edward,	<i>Marion,</i>	Electrical Eng'g.
Trams, Theodore Herman,	<i>Champaign,</i>	Civil Eng'g.
Trego, Walter,	<i>Hoopston,</i>	Agriculture.
Truman, Edna,	<i>Urbana,</i>	Household Science.
Turell, Vera,	<i>Champaign,</i>	General, L. and A.
Turnbull, Foster Brown,	<i>Forestville, N. Y.,</i>	Business.
Urestii, Adolfo Sanchez,	<i>Saltillo, Mex.,</i>	Arch. Eng'g.
Voedisch, Henry Arthur,	<i>Chicago,</i>	Chemical Eng'g.
Waddell, James Vance,	<i>Taylorville,</i>	Civil Eng'g.
Waldo, Karl Douglas,	<i>Rockford,</i>	General, L. and A.
Walsh, Edward Rodney,	<i>Elgin,</i>	Civil Eng'g.
Walsh, John James, Ph. B. ( <i>Univ. of Chicago</i> ), 1899,	<i>Chicago,</i>	Mechanical Eng'g.
Walmsley, Mabel,	<i>Mattoon,</i>	General, L. and A.
Warne, Walter Evans,	<i>Delavan,</i>	Electrical Eng'g.
Warner, Raymond Curtis,	<i>Chicago,</i>	Mechanical Eng'g.
Washburn, Charles Alva,	<i>Fairmount,</i>	Mechanical Eng'g.
Watkins, Oscar S,	<i>Danville,</i>	Chemistry.
Weaver, Herbert Joseph,	<i>Wheaton,</i>	Electrical Eng'g.
Webber, William Barnett, Jr.,	<i>Urbana,</i>	Mechanical Eng'g.
Weilepp, Leila Maude,	<i>Cisco,</i>	Library, L. and A.
Wells, Reginald Ellis,	<i>Champaign,</i>	Mechanical Eng'g.
Wheeler, Mary Margaret,	<i>Grant Park,</i>	Prep. to Medicine.
Whipple, Robert Hoadley,	<i>Rockford,</i>	Civil Eng'g.
Wiemer, Otto,	<i>Carrollton,</i>	Electrical Eng'g.
Wilkinson, Lawrence Egar,	<i>Champaign,</i>	Architectural Eng'g.
Williams, Anna Waller,	<i>Urbana,</i>	General, L. and A.
Williams, Djalma Downey,	<i>Clinton,</i>	Civil Eng'g.
Williams, Roy,	<i>Monticello,</i>	Music.
Wilson, Edwin Leonard,	<i>Joliet,</i>	General, L. and A.
Winslow, Frederic Honce,	<i>Jacksonville,</i>	Mechanical Eng'g.
Wise, Leonard E,	<i>Cerro Gordo,</i>	Agriculture.
Wollaver, Jennie Ella,	<i>Rockford,</i>	Household Science.
Wood, Beulah Miles,	<i>Petersburg,</i>	General, L. and A.
Wood, Lewis Hungerford,	<i>Oak Park,</i>	Mechanical Eng'g.
Woodin, Earle Belmont,	<i>St. Joseph,</i>	Civil Eng'g.
Woolman, Xenia May,	<i>Urbana,</i>	Library, L. and A.
Wooster, Lawrence Fisher,	<i>Litchfield,</i>	Electrical Eng'g.



Wright, Herman Festues,	<i>Vienna,</i>	Agriculture.
Wright, William Wilberforce,	<i>Carthage, Mo.,</i>	Civil Eng'g.
Young, Dwayne Glover,	<i>Lewistown,</i>	Electrical Eng'g.
Young, Rose Jeannette,	<i>Rushville,</i>	General Science.

## FRESHMEN

Agnew, Leslie Vaughan,	<i>Chesaning, Mich.,</i>	Civil Eng'g.
Alsip, Albert A,	<i>Chicago,</i>	Mechanical Eng'g.
Alverson, Grace Margeret,	<i>Champaign,</i>	Music.
Ammann, Stella Alice,	<i>Highland,</i>	Music.
Anderson, Burt Thompson,	<i>Galesburg,</i>	Electrical Eng'g.
Andrews, Will,	<i>Mattoon,</i>	Electrical Eng'g.
Arbuckle, Philip Heckman,	<i>Kingston,</i>	General, L. and A.
Archer, Arthur Ward,	<i>Little Rock, Ark.,</i>	Architecture.
Argraves, Arlow J,	<i>Sterling,</i>	Civil Eng'g.
Armstrong, Jessie Eva,	<i>Champaign,</i>	General, L. and A.
Ashbrook, Chester Daniel,	<i>Mattoon,</i>	Civil Eng'g.
Austin, Clem C,	<i>Streator,</i>	General Science.
Babcock, Fred Hayes,	<i>Chicago,</i>	Architecture.
Bagby, Francis Cyrus,	<i>Rushville,</i>	Civil Eng'g.
Baker, Geraldine Louise,	<i>Streator,</i>	General, L. and A.
Baker, Orrin Hugh,	<i>Chicago,</i>	Mechanical Eng'g.
Baker, Ray Luzerne,	<i>Champaign,</i>	Mechanical Eng'g.
Ball, John Dudley,	<i>Pontiac,</i>	Mechanical Eng'g.
Ballantyne, George Horton,	<i>Burlington, Ia.,</i>	Civil Eng'g.
Ballard, Jeannette,	<i>New Orleans, La.,</i>	Lib., L. and A.
Ballou, Mary Ellen,	<i>Wheaton,</i>	General, L. and A.
Bannon, Winifred Agnes,	<i>Joliet,</i>	General, L. and A.
Barber, Harry Haughey,	<i>Freeport,</i>	Mechanical Eng'g.
Barlow, Mildred Lucile,	<i>Streator,</i>	General, L. and A.
Barton, Walter Edmund,	<i>Nokomis,</i>	Mechanical Eng'g.
Bautista, Antonio Santos,	<i>Malolos, P. I.,</i>	Agriculture.
Bean, Elsie Margaret,	<i>Blue Mound,</i>	General, L. and A.
Bear, Paul Carlton,	<i>Monticello,</i>	General, L. and A.
Beatty, George Shelley,	<i>Mattoon,</i>	Electrical Eng'g.
Beck, Peter James,	<i>Pontiac,</i>	General, L. and A.
Beckemeyer, Oscar William,	<i>Buxton,</i>	Business.
Beckwith, Chester,	<i>Normal,</i>	General, L. and A.
Beebe, Wilma Esther,	<i>Kankakee,</i>	General, L. and A.
Benjamin, Fred Parker,	<i>Watseka,</i>	General, L. and A.
Bennett, Arthur Norton,	<i>Chicago,</i>	Chemical Eng'g.

Beyer, George Frederick,	<i>Cullom,</i>	General Science.
Bigelow, Janet Victoria,	<i>Galva,</i>	General, L. and A.
Billings, Walter Emerson,	<i>Geneseo,</i>	Electrical Eng'g.
Black, William,	<i>Mendota,</i>	Mechanical Eng'g.
Blakeslee, George Robert,	<i>Chicago,</i>	Business.
Board, Harold Edward,	<i>Evanston,</i>	Mechanical Eng'g.
Bodwell, Frank Lyman,	<i>Methuen, Mass.,</i>	Civil Eng'g.
Bolin, Willie Kimson,	<i>Sullivan,</i>	Agriculture.
Boon, Hugh Thomas,	<i>Urbana,</i>	Agriculture.
Borden, George William,	<i>Paris,</i>	Civil Eng'g.
Born, Ora Littlefield,	<i>Champaign,</i>	General, L. and A.
Boue, Eleanor May,	<i>Loda,</i>	General, L. and A.
Bowman, Lewis Napoleon,	<i>Mason City,</i>	Civil Eng'g.
Boyer, Mabel Blanche,	<i>Bloomington,</i>	Music.
Bradley, John Jay,	<i>Chicago,</i>	Electrical Eng'g.
Branch, Nellie Uree,	<i>Champaign,</i>	General, L. and A.
Brant, Jessie Jennette,	<i>Hamilton,</i>	Music.
Brawner, William Henry,	<i>Delavan,</i>	Mechanical Eng'g.
Brewer, William Emery,	<i>Newman,</i>	Civil Eng'g.
Bright, Jessie De,	<i>Covington, Ind.,</i>	Gen., L. and A.
Brittenham, John Anderson,	<i>Pontiac,</i>	Mechanical Eng'g.
Bronson, George Earl,	<i>Chicago,</i>	Civil Eng'g.
Brooks, John Harrison,	<i>Casey,</i>	General, L. and A.
Brooks, Richard Abner,	<i>Saunemin,</i>	Civil Eng'g.
Brown, Earl Clarence,	<i>Charleston,</i>	Civil Eng'g.
Brown, Maudelle Tanner,	<i>St. Louis, Mo.,</i>	Gen., L. and A.
Brown, Ruth Elizabeth,	<i>Dixon,</i>	Library, L. and A.
Brownson, Howard Gray,	<i>Centralia,</i>	General, L. and A.
Burke, James Joseph,	<i>Springfield,</i>	Electrical Eng'g.
Burns, Deane,	<i>Macomb,</i>	Electrical Eng'g.
Burwash, Florence Lerria,	<i>Champaign,</i>	General Science.
Busey, Carolyn Elizabeth,	<i>Urbana,</i>	Household Science.
Bushnell, Howard Blaine,	<i>Paxton,</i>	Civil Eng'g.
Butler, Harry Gooding,	<i>Lockport,</i>	Civil Eng'g.
Butler, John Prescott,	<i>Monticello,</i>	Civil Eng'g.
Button, Harry Slife,	<i>Milford,</i>	Electrical Eng'g.
Buxton, Edwin Walker,	<i>Jacksonville,</i>	Civil Eng'g.
Cadwallader, Douglass Pope,	<i>Springfield,</i>	Prep. to Medicine.
Caldwell, Ida Belle,	<i>Charles City, Ia.,</i>	Library.
Caldwell, Will Carleton,	<i>Monticello,</i>	Architecture.
Calloway, Russell Thornhill,	<i>Taylorville,</i>	Electrical Eng'g.

Campbell, Albert DeLoss,	<i>Peoria,</i>	Architectural Eng'g.
Campbell, Robert Howard,	<i>Virginia,</i>	Agriculture.
Canterbury, Clair Earl,	<i>Cantrall,</i>	Agriculture.
Casey, Augustus Bacon,	<i>Chicago,</i>	Civil Eng'g.
Casteel, Mabel Estelle,	<i>Danville,</i>	General, L. and A.
Castle, Frederick Boyd,	<i>Quincy,</i>	Mechanical Eng'g.
Cermak, Jerome,	<i>Chicago,</i>	Civil Eng'g.
Chamberlain, Carl Coley,	<i>Pittsfield,</i>	Civil Eng'g.
Chambers, Samuel Sunderland,	<i>Chicago,</i>	Electrical Eng'g.
Chance, William Edwin,	<i>Urbana,</i>	General, L. and A.
Chapin, Mae,	<i>Champaign,</i>	General, L. and A.
Cherry, Clifford Allen,	<i>Oswego,</i>	General, L. and A.
Chesnut, Jennette Stewart,	<i>Hartsburg,</i>	General, L. and A.
Chester, Virginia,	<i>Champaign,</i>	Music.
Church, Ernest Beard,	<i>Aledo,</i>	General, L. and A.
Clark, Albert Barnes, Jr.,	<i>Honolulu, H. I.,</i>	Electrical Eng'g.
Clark, Charles Rollin,	<i>Elvaston,</i>	General Science.
Clark, John Daniel,	<i>Freeport,</i>	Mechanical Eng'g.
Clark, Richard Monroe,	<i>Vandalia,</i>	Agriculture.
Cleary, James Mansfield,	<i>Chicago,</i>	General, L. and A.
Clingan, Dennis Albert,	<i>Georgetown,</i>	General, L. and A.
Coffey, Walter Castillia,	<i>Champaign,</i>	Agriculture.
Collins, Stephen William.	<i>Rock Island,</i>	Civil Eng'g.
Connard, Curtis Earl,	<i>Decatur,</i>	Electrical Eng'g.
Cook, Pansy Elizabeth,	<i>Urbana,</i>	General, L. and A.
Cooke, Allen Burton,	<i>Danville,</i>	Civil Eng'g.
Cover, Roe Hall,	<i>Pontiac,</i>	Architectural Eng'g.
Cox, James Francis,	<i>Urbana,</i>	Prep. to Medicine.
Cresap, Dwight Ray,	<i>Cushman,</i>	Agriculture.
Crihfield, Philip A,	<i>Atlanta,</i>	Business.
Cross, Roy Walter,	<i>Mason City,</i>	Agriculture.
Crouch, Ellis Lindsley,	<i>Cohocton, N. Y.,</i>	Agriculture.
Curtis, Naida Louise.	<i>DeMoines, Ia.,</i>	Library, L. and A.
Dailey, John Andrew,	<i>Rock City,</i>	Civil Eng'g.
Davis, John June,	<i>Centralia,</i>	General Science.
Davis, Nell Sarella McMillen,	<i>Farmer City,</i>	General, L. and A.
Davis, Ralph Richard,	<i>Centralia,</i>	Business.
Davison, Anna Mary,	<i>Monticello,</i>	Music.
Denne, Alfred Eugene,	<i>Gibson City,</i>	Business.
DeWitt, Louise Elizabeth,	<i>La Grange,</i>	General, L. and A.
Dexter, Clarence Luther,	<i>Fairbury,</i>	General, L. and A.

Dick, Carl Rankin,	<i>Bloomington,</i>	Civil Eng'g.
Dick, George Frederick, Jr.,	<i>Bloomington,</i>	Civil Eng'g.
Dighton, Samuel Reed,	<i>Monticello,</i>	General, L. and A.
Dillon, Edna Leila,	<i>Urbana,</i>	General, L. and A.
Disbrow, Iva Belle,	<i>Huntley,</i>	General, L. and A.
Disosway, Mark Deems,	<i>Sheldon,</i>	Electrical Eng'g.
Dixon, Nellie Mabel,	<i>Streator,</i>	General, L. and A.
Dodd, Townsend Foster,	<i>Anna,</i>	Electrical Eng'g.
Donaldson, Robert Stanley,	<i>Chicago,</i>	Civil Eng'g.
Donnesberger, Frank Joseph,	<i>Chicago,</i>	Civil Eng'g.
Doren, Elizabeth Bragdon,	<i>Dayton, O.,</i>	Library.
Doyle, Francis Aloysius,	<i>Chicago,</i>	Civil Eng'g.
Drew, Lynn Amos,	<i>Watseka,</i>	Prep. to Medicine.
Dunbar, Harry Butler,	<i>Princeton,</i>	Agriculture.
Dunn, Harold Houghton,	<i>Moline,</i>	Electrical Eng'g.
Dyckes, Lawrence Julian,	<i>Lewistown,</i>	Electrical Eng'g.
Eaton, Helen Mary,	<i>Tyler, Tex.,</i>	General, L. and A.
Edmunds, Daniel Austin,	<i>Gilman,</i>	Mechanical Eng'g.
Edwards, Jessie May,	<i>Urbana,</i>	General, L. and A.
Egy, Willard Leo,	<i>Urbana,</i>	Electrical Eng'g.
Eldred, John Jeduthan,	<i>Thomasville,</i>	Agriculture.
Eldred, William Samuel,	<i>Thomasville,</i>	Agriculture.
Elliott, Hiram Washburn,	<i>Peoria,</i>	Civil Eng'g.
Emery, Cecil,	<i>Greenview,</i>	Political Science.
Emery, Paul Raymond,	<i>Greenview,</i>	Electrical Eng'g.
Erie, Storm Charles,	<i>Chicago,</i>	Civil Eng'g.
Ervin, John Frank,	<i>Cutler,</i>	Mechanical Eng'g.
Evans, Edwin Rawden,	<i>Warren,</i>	Mechanical Eng'g.
Everhart, Leon Ulysses,	<i>Urbana,</i>	General, L. and A.
Everspacher, Jacob Christian,	<i>Pana,</i>	General, L. and A.
Fargo, Roy Newton,	<i>Streator,</i>	Electrical Eng'g.
Farr, Milan Jesse,	<i>Oakland,</i>	General, L. and A.
Feind, Frances Marguerite,	<i>Chicago Heights,</i>	Lib., L. and A.
Fillwebber, Clarence John,	<i>Marengo,</i>	General, L. and A.
Finefield, George Louis,	<i>Odell,</i>	Electrical Eng'g.
Fishback, William Murphy,	<i>Marshall,</i>	General, L. and A.
Foote, Ralph James,	<i>Ogdensburg, N. Y.,</i>	Arch. Eng'g.
Ford, William Sidney,	<i>Tonica,</i>	Chemical Eng'g.
Foreman, Chester Alva,	<i>Pittsfield,</i>	Civil Eng'g.
Forester, Robert Jackson,	<i>DuQuoin,</i>	Electrical Eng'g.
Fosler, Charles Edward,	<i>Savanna,</i>	Mechanical Eng'g.

Franklin, James Garfield,	<i>Charleston,</i>	Prep. to Medicine.
Fricke, Herman Henry,	<i>Blair,</i>	Mechanical Eng'g.
Friend, Robert Owen,	<i>Evanston,</i>	Electrical Eng'g.
Frye, Frederick William,	<i>Aberdeen, Miss.,</i>	Civil Eng'g.
Fuller, Wilford Winnie,	<i>Charleston,</i>	Business.
Galhuly, Stanley Worcester,	<i>White Hall,</i>	Civil Eng'g.
Gambach, Jacob,	<i>Hecker,</i>	General, L. and A.
Gardner, Bradley Charles,	<i>Chicago,</i>	Chemistry.
Gardner, Harry Clifton,	<i>Viola,</i>	Electrical Eng'g.
Garrison, Lloyd,	<i>Milford,</i>	Electrical Eng'g.
Geary, Clinton Garfield,	<i>Polo,</i>	Civil Eng'g.
Gentsch, Vida Celinda,	<i>New Philadelphia, O.,</i>	Gen., L.& A.
Gentsch, Wilhelmina Holly,	<i>New Philadelphia, O.,</i>	Gen., L.& A.
Gephard, Earl Benjamin,	<i>Mendota,</i>	Civil Eng'g.
Gibbs, Forrest Linn,	<i>Princeton,</i>	Architecture.
Gilchrist, John Weir,	<i>Davenport, Ia.,</i>	Electrical Eng'g.
Gilkerson, Portia Eunice,	<i>Urbana,</i>	Household Science.
Gillmore, James Marion,	<i>Urbana,</i>	Civil Eng'g.
Glenn, Elenor Mae,	<i>Champaign,</i>	General, L. and A.
González, Arturo,	<i>Sacramento, Coahillo, Mex.,</i>	Architectural Eng'g.
Good, Verna Mae,	<i>Neoga,</i>	General, L. and A.
Goodman, Ernest Albert,	<i>Sadorus,</i>	Mechanical Eng'g.
Gordley, William Thomas,	<i>Virginia,</i>	General, L. and A.
Graham, Donald,	<i>Noblesville, Ind.,</i>	Architecture.
Grauten, Sylvester Henry,	<i>Chicago,</i>	Mechanical Eng'g.
Grear, Sidney,	<i>Anna,</i>	Electrical Eng'g.
Green, Bessie Rose,	<i>Ivesdale,</i>	General Science.
Green, Harry L,	<i>Rockford,</i>	Mechanical Eng'g.
Greenleaf, Moses,	<i>Jacksonville,</i>	Agriculture.
Greenman, Margaret Grace,	<i>Champaign,</i>	General, L. and A.
Greer, James Richard,	<i>Champaign,</i>	Physics.
Gregory, Carl Earl,	<i>Elgin,</i>	Business.
Greydene-Smith, Vincent,	<i>Canon City, Colo.,</i>	Business.
Grierson, Walter Gay,	<i>Morrison,</i>	Arch. Eng'g.
Gross, Alfred Otto,	<i>Atwood,</i>	Prep. to Medicine.
Groves, James Clair,	<i>Dana, Ind.,</i>	Civil Eng'g.
Guilford, Elijah Bemis,	<i>Pecatonica,</i>	Electrical Eng'g.
Gunther, Arthur H,	<i>Chicago,</i>	Mechanical Eng'g.
Gustafson, Axel Ferdinand,	<i>Aledo,</i>	Agriculture.
Gwinn, Alta,	<i>Urbana,</i>	General, L. and A.

Hachmeister, George John Ernest,	<i>Chicago,</i>	Civil Eng'g.
Hagen, Michael Edward,	<i>Champaign,</i>	Electrical Eng'g.
Hake, Harry Gray,	<i>Barry,</i>	Electrical Eng'g.
Hall, Frederic Charles,	<i>Buffalo,</i>	Civil Eng'g.
Hall, Janet Alletta,	<i>Danville,</i>	Prep. to Medicine.
Hammitt, Cloyd,	<i>Atlanta,</i>	Mechanical Eng'g.
Hanke, Frederick Edward,	<i>Harvey,</i>	Mechanical Eng'g.
Hanna, Bessie Jean,	<i>Chicago,</i>	General, L. and A.
Hanna, Roberta Louise,	<i>Oak Park,</i>	Household Science.
Hansen, Klaus Lobek,	<i>Chicago,</i>	Civil Eng'g.
Hansen, Ida Frances,	<i>Urbana,</i>	Art and Design.
Hanson, Mabel Irene,	<i>Urbana,</i>	Music.
Harkrader, Leona,	<i>Decatur,</i>	General, L. and A.
Harnit, Joseph Milton,	<i>Ludlow,</i>	Civil Eng'g.
Harper, Bertha May,	<i>Granville,</i>	Household Science.
Harris, Estelle,	<i>Modesto,</i>	Library, L. and A.
Harrison, Guy Renshaw,	<i>Decatur,</i>	Agriculture.
Harrison, James Frank,	<i>Ottawa,</i>	Electrical Eng'g.
Harvey, Bessie May,	<i>Urbana,</i>	General, L. and A.
Haungs, Howard Charles,	<i>Peoria,</i>	Civil Eng'g.
Hays, Howard H,	<i>Metropolis,</i>	General, L. and A.
Heaney, Arthur Noble,	<i>Quincy,</i>	Civil Eng'g.
Heath, Payne,	<i>White Heath,</i>	Mechanical Eng'g.
Hellmann, Carl August,	<i>Chicago,</i>	Electrical Eng'g.
Helm, Roy Raymond,	<i>Metropolis,</i>	General, L. and A.
Herman, George Bendick,	<i>Manitowoc, Wis.,</i>	Arch. Eng'g.
Herrick, Hope,	<i>Farmer City,</i>	General, L. and A.
Hess, Harry Clyde,	<i>Ottawa,</i>	General, L. and A.
Hess, Lottie,	<i>Philo,</i>	General, L. and A.
Hildebrand, Clement Alvin,	<i>Hinsdale,</i>	Agriculture.
Hill, Fred Spates,	<i>Victor, Colo.,</i>	Chemical Eng'g.
Hilton, Fred Emsley,	<i>Paris,</i>	Electrical Eng'g.
Hobbs, Horace Gaylord,	<i>Pontiac,</i>	Electrical Eng'g.
Hoff, Charles Edward,	<i>Havana,</i>	Civil Eng'g.
Hogge, Arthur Rudolph,	<i>Kansas City, Mo.,</i>	Business.
Holliday, Alexander Gaillard,	<i>Monmouth,</i>	Prep. to Medicine.
Hook, Charles Alfred,	<i>Vienna,</i>	Mechanical Eng'g.
Horan, Lester John,	<i>Ottawa,</i>	Business.
Howard, Frederick Seymour,	<i>Bloomington,</i>	Mechanical Eng'g.
Howe, Alice,	<i>Urbana,</i>	Library, L. and A.
Howser, Edith Beryl,	<i>Urbana,</i>	Music.

Howell, Leslie Dillon,	<i>Ipava,</i>	Architecture.
Hubbart, Gurth Searle,	<i>Champaign,</i>	General, L. and A.
Huckins, Alvin Elmont,	<i>Chicago,</i>	Mechanical Eng'g.
Hughes, Harold DeMotte,	<i>Antioch,</i>	Agriculture.
Hull, Horace,	<i>Chicago,</i>	Municipal Eng'g.
Hull, Ward Louis,	<i>Roodhouse,</i>	Agriculture.
Humphreys, Harry Paul,	<i>Atkinson,</i>	Mechanical Eng'g.
Huse, Louise Marie,	<i>Mason City,</i>	General, L. and A.
Hutchin, Claire Elwood,	<i>Decatur,</i>	General, L. and A.
Hutchinson, Ella May,	<i>Odell, Neb.,</i>	General, L. and A.
Huth, Walter Henry,	<i>Chicago,</i>	Mechanical Eng'g.
Hyde, Alien Kirk,	<i>Evanston,</i>	Mechanical Eng'g.
Ingham, George Frost,	<i>Kewanee,</i>	Electrical Eng'g.
Ingham, Rolla Tenney,	<i>Clinton,</i>	General, L. and A.
Jackson, Lena,	<i>Rensselaer, Ind.,</i>	Gen., L. and A.
Jacob, Ernst Otto,	<i>Quincy,</i>	Mechanical Eng'g.
James, Carl,	<i>Pittsfield,</i>	Civil Eng'g.
Jeffrey, Melvin Roy,	<i>Geneseo,</i>	Agriculture.
Jensen, Trygve,	<i>Christiania, Norway,</i>	Elec. Eng'g.
Jervis, Katherine Belle,	<i>Champaign,</i>	General, L. and A.
Jessup, Richard Dale,	<i>Chicago,</i>	Mechanical Eng'g.
Johnson, Aimee Louise,	<i>Moline,</i>	General, L. and A.
Johnson, Alfred,	<i>Fairmount, Ind.,</i>	Arch. Eng'g.
Johnson, Walter Warren,	<i>Farmer City,</i>	Mechanical Eng'g.
Johnston, Ernest Hungerford,	<i>Chicago,</i>	Electrical Eng'g.
Joiner, Beulah,	<i>Polo,</i>	General, L. and A.
Jones, Sidney Francis,	<i>Washington, D. C.,</i>	Gen., L. & A.
Kacin, Anton Charles,	<i>Chicago,</i>	Electrical Eng'g.
Kammerman, John Oscar,	<i>Joliet,</i>	Electrical Eng'g.
Kariher, Mrs. Gwendolin Roberts,	<i>Champaign,</i>	Music.
Karraker, Edward Leo,	<i>Jonesboro,</i>	Civil Eng'g.
Kegley, Eugene Ross,	<i>Urbana,</i>	Business.
Kellogg, Howard Campbell,	<i>Tiskilwa,</i>	Electrical Eng'g.
Kellum, Charles Samuel,	<i>Sycamore,</i>	Mechanical Eng'g.
Kelly, Ada May,	<i>Keokuk, Ia.,</i>	Architecture.
Kendall, Myron Avery,	<i>Aurora,</i>	Mechanical Eng'g.
Kennedy, John Robie, Jr.,	<i>Tuscaloosa, Ala.,</i>	Architecture.
Kerch, Walter Washington,	<i>Freeport,</i>	Civil Eng'g.
Kerr, Josephine,	<i>Urbana,</i>	Household Science.
Kidd, Effie Berdella,	<i>Tiskilwa,</i>	General, L. and A.
Kimball, Sumner Clare,	<i>Libertyville,</i>	Civil Eng'g.

Kirkpatrick, John Wilson,	<i>Urbana,</i>	Prep. to Medicine.
Klewer, Arthur Leonard,	<i>Chicago,</i>	Architecture.
Knapp, Willard Alfred,	<i>Farmer City,</i>	Civil Eng'g.
Knappenberger, George Emmett,	<i>Macomb,</i>	Prep. to Medicine.
Knox, Jean Howard,	<i>Oklahoma City, Okla.,</i>	Mechanical Eng'g.
Koch, Alfred Richard,	<i>Alton,</i>	Chemical Eng'g.
Koch, Reuben Arles,	<i>Urbana,</i>	Music.
Kolker, Katherine Joan,	<i>Quincy,</i>	General, L. and A.
Kratz, Alonzo Plumsted,	<i>Champaign,</i>	Civil Eng'g.
Krueger, Ernst Theodore,	<i>Blue Island,</i>	Mechanical Eng'g.
Kultchar, Eugene Frank,	<i>Winnetka,</i>	Mechanical Eng'g.
Kyser, Gladys Mae,	<i>El Paso,</i>	General, L. and A.
Lake, Elmer S,	<i>Cantrall,</i>	General, L. and A.
Larabee, Charles David,	<i>Parv Parv,</i>	General Science.
Larson, Rollin J,	<i>Galva,</i>	Business.
Latham, William Arthur,	<i>Kankakee,</i>	Agriculture.
Lee, Mary Howard,	<i>Aledo,</i>	General, L. and A.
Lee, Mylo,	<i>Aledo,</i>	Civil Eng'g.
Lefler, Anna Bell,	<i>Pontiac,</i>	Household Science.
Lendrum, Ethel,	<i>Chicago,</i>	General, L. and A.
Lewis, Sherman,	<i>Marseilles,</i>	Mechanical Eng'g.
Lewis, Wilfred,	<i>Dubuque, Ia.,</i>	Civil Eng'g.
Lindgren, Arthur Gordon,	<i>Chicago,</i>	Civil Eng'g.
Lindsay, Florence Belle,	<i>Andover, Mass.,</i>	Gen., L. and A.
Little, Roger Frank,	<i>Tolono,</i>	General, L. and A.
Llewellyn, Clarinne,	<i>La Grange,</i>	General Science.
Lodge, Fred Stirling,	<i>Monticello,</i>	General Science.
Longfellow, Eben Simon,	<i>Newton, Ia.,</i>	Civil Eng'g.
Lord, Harry Adalbert,	<i>La Grange,</i>	Mechanical Eng'g.
Love, Edward Thomas,	<i>Aledo,</i>	Architectural Eng'g.
Lowry, Jessie Rudisill,	<i>Wilmette,</i>	General, L. and A.
Luney, Frank Solon,	<i>DeKalb,</i>	Mechanical Eng'g.
Luther, Edward LeRoy,	<i>Geneseo,</i>	Agriculture.
Lycan, Charles Peter,	<i>Paris,</i>	Civil Eng'g.
McArty, Charles Roy,	<i>Champaign,</i>	Civil Eng'g.
McCaskey, Wendla Justitia,	<i>Chicago,</i>	General, L. and A.
McClelland, Clarence Edgar,	<i>Beason,</i>	Prep. to Medicine.
McConaughy, Frank Harold,	<i>Rochelle,</i>	Business.
McCracken, Robert Weir,	<i>Plano,</i>	Civil Eng'g.



McCredie, Hugh, Jr.,	<i>Oklahoma City, Okla.,</i>	General, L. and A.
McFadden, Joel Parkhurst,	<i>Chicago,</i>	Mechanical Eng'g.
Mack, Louis William,	<i>Chicago,</i>	General, L. and A.
Mackay, Jesse John,	<i>Mt. Carroll,</i>	Agriculture.
MacKay, Sarah Davina,	<i>Mt. Carroll,</i>	General Science.
Mackey, George Bartholomew,	<i>Chicago,</i>	Mechanical Eng'g.
McKinney, Harold Burritt,	<i>Urbana,</i>	Mechanical Eng'g.
McManis, James William,	<i>LaMoille,</i>	Civil Eng'g.
McMillan, Nelle Aileen,	<i>Danville,</i>	General, L. and A.
Maddock, Alice Emily,	<i>Chicago,</i>	General Science.
Maddox, Wilbur Clinton,	<i>Galva,</i>	Electrical Eng'g.
Madison, George,	<i>Savanna,</i>	Electrical Eng'g.
Mahler, Carl,	<i>Highland,</i>	Chemical Eng'g.
Main, Roscoe Conkling,	<i>Pittsfield,</i>	Prep. to Medicine.
Mandeville, Helen Ruth,	<i>Champaign,</i>	General, L. and A.
Manning, Claude Webb,	<i>Maple Park,</i>	Civil Eng'g.
Manspeaker, Edith Gruver,	<i>Champaign,</i>	Household Science.
Marks, David Thaddeus,	<i>Dixon,</i>	Electrical Eng'g.
Marsh, Helen Althea,	<i>Lacon,</i>	General, L. and A.
Martin, Clyde Leonidas,	<i>Dwight,</i>	Chemical Eng'g.
Martin, Earle W,	<i>Geneseo,</i>	Electrical Eng'g.
Martin, Fred Raymond,	<i>Toluca,</i>	Electrical Eng'g.
Matteson, Price Collins,	<i>Morris,</i>	Agriculture.
Maxwell, Stanley Lyle,	<i>Robinson,</i>	Civil Eng'g.
Meharry, Charles Leo,	<i>Tolono,</i>	Agriculture.
Mellen, Arthur Franklin,	<i>Amboy,</i>	Civil Eng'g.
Mercer, Alexander Val,	<i>Attica, Ind.,</i>	Civil Eng'g.
Merritt, Harold Emmett.	<i>Salem,</i>	Civil Eng'g.
Meserve, Gladys Theodosia,	<i>Robinson,</i>	General, L. and A.
Meyer, John Frederick, Jr.,	<i>Hannibal, Mo.,</i>	Architecture.
Miller, Alvin Charles,	<i>New Athens,</i>	Mechanical Eng'g.
Miller, Barbara Ellen.	<i>Sparta,</i>	General, L. and A.
Miller, Chester Branch,	<i>Champaign,</i>	General, L. and A.
Miller, James Erickson,	<i>Paxton,</i>	Electrical Eng'g.
Miller, Nellie Grant,	<i>Champaign,</i>	General, L. and A.
Miller, Roy Austin,	<i>Aurora,</i>	Electrical Eng'g.
Millspaugh, Martin Laurence.	<i>Davenport, Ia.,</i>	Electrical Eng'g.
Miner, J Howard,	<i>Adair,</i>	Agriculture.
Mitchell, Brian Leonard.	<i>Chicago,</i>	Chemical Eng'g.
Monrad, Karl Johan,	<i>New York, N. Y.,</i>	Chem. Eng'g.

Moore, Joseph Kennedy,	<i>Yorkville,</i>	Civil Eng'g.
Moore, Louis Conway,	<i>Newman,</i>	Mechanical Eng'g.
Moore, Samuel Burns,	<i>Louisville,</i>	Mechanical Eng'g.
Morgan, Ambert Delos,	<i>Hampshire,</i>	General Science.
Morris, James Edwin,	<i>Congress Park,</i>	Electrical Eng'g.
Morrison, Roy Augustine,	<i>Pontiac,</i>	Mechanical Eng'g.
Morrison, Roger Leroy,	<i>Winnetka,</i>	Prep. to Medicine.
Morton, William Carroll,	<i>New York, N. Y.,</i>	Pol'l Science.
Moss, Charles Taylor,	<i>Urbana,</i>	General, L. and A.
Moynihan, Charles Joseph,	<i>White Hall,</i>	General, L. and A.
Mueller, Grover Robert,	<i>Chicago,</i>	Mechanical Eng'g.
Murphy, Emmet Lochr,	<i>Jerseyville,</i>	Architectural Eng'g.
Mussenden, William Sutherland,	<i>Springfield,</i>	Civil Eng'g.
Nelson, Jacob Clark,	<i>Canton,</i>	Agriculture.
Nelson, Winfred DeWitte,	<i>Sheldon,</i>	Civil Eng'g.
Neu, Clarence Leonard,	<i>Chicago,</i>	General, L. and A.
Newton, Harry Waggoner,	<i>Champaign,</i>	Chemistry.
Nichol, Marion Starr,	<i>Urbana,</i>	General, L. and A.
Norenberg, Clarence Eugene,	<i>Highland Park,</i>	Arch. Eng'g.
O'Brien, Charlotte Louise,	<i>Chicago,</i>	General, L. and A.
Olcott, Chester Clare,	<i>Keithsburg,</i>	Business.
Oliphant, Chester Edwin,	<i>Ft. Wayne, Ind.,</i>	Elec. Eng'g.
Osburn, Nye Nile,	<i>Wilmington,</i>	Business.
Palmer, George Dwight,	<i>Joliet,</i>	Electrical Eng'g.
Palmer, Harry Raymond,	<i>Galva,</i>	Agriculture.
Parker, Minnie Lenora,	<i>Taylorville,</i>	General, L. and A.
Parks, Paul Lindley,	<i>Urbana,</i>	Civil Eng'g.
Parmelee, Louis Ray,	<i>Mount Vernon,</i>	Electrical Eng'g.
Parsons, Irene Mary,	<i>Chicago,</i>	General, L. and A.
Parsons, Maud Edna,	<i>Elgin,</i>	General, L. and A.
Patch, Harold Knowles,	<i>Rushville,</i>	Electrical Eng'g.
Paul, Frank Masters, Jr.,	<i>Wilmette,</i>	Chemical Eng'g.
Payton, Lyle,	<i>Moline,</i>	Civil Eng'g.
Pearce, Warren Frederick,	<i>Quincy,</i>	Prep. to Medicine.
Pearman, Arthur Columbia,	<i>Champaign,</i>	Business.
Peck, Clara Louise,	<i>Champaign,</i>	General, L. and A.
Peck, Harry Spencer,	<i>Shepherd,</i>	Civil Eng'g.
Peebles, Thomas,	<i>Naperville,</i>	Mechanical Eng'g.
Peine, Adela Lydia Caroline,	<i>Minier,</i>	General, L. and A.
Penwell, Edward Enos,	<i>Danville,</i>	General, L. and A.
Percival, Elmer Johnson,	<i>Urbana.</i>	Agriculture.

Perkins, Reba Niles,	<i>Urbana,</i>	General, L. and A.
Perlee, Fred L,	<i>Fairbury,</i>	Civil Eng'g.
Perry, Jesse Leroy,	<i>Dwight,</i>	Electrical Eng'g.
Peters, Grant Houston,	<i>Monticello,</i>	General, L. and A.
Pillsbury, Charles Stephen,	<i>Urbana,</i>	Mechanical Eng'g.
Pool, Ralph W,	<i>Paxton,</i>	Electrical Eng'g.
Poorman, Alfred Peter,	<i>Altamont,</i>	Civil Eng'g.
Pope, Henry Patterson,	<i>Moline,</i>	Mechanical Eng'g.
Pope, Jean Andrew,	<i>Moline,</i>	Mechanical Eng'g.
Porter, Katherine Bell,	<i>Princeton,</i>	Household Science.
Post, Clarence Fayette,	<i>Beardstown,</i>	Civil Eng'g.
Powers, Lawrence Clemment,	<i>Tiskilwa,</i>	Chemistry.
Preston, Floyd Earl,	<i>Renville, N. D.,</i>	Electrical Eng'g.
Price, Mollie Anastasia,	<i>Conzwall, N. Y.,</i>	Gen., L. and A.
Pruitt, Forrest Allen,	<i>Watseka,</i>	Civil Eng'g.
Purtill, Carl Ritter,	<i>Charleston,</i>	Civil Eng'g.
Qualls, Guy Logan,	<i>Murphysboro,</i>	Agriculture.
Randall, James,	<i>Peoria,</i>	Civil Eng'g.
Randall, Robert Alexander.	<i>Lewistown,</i>	Electrical Eng'g.
Ray, Arthur E,	<i>Rockford,</i>	Electrical Eng'g.
Ready, James Howard,	<i>Farmer City,</i>	General, L. and A.
Reams, Herman Emerson,	<i>Chicago,</i>	Mechanical Eng'g.
Reardon, Charles Carroll,	<i>Delavan,</i>	General Science.
Reardon, Clarence Henry,	<i>Delavan,</i>	General, L. and A.
Reeves, Fanny Steadman,	<i>Champaign,</i>	Household Science.
Reinach, Elsie,	<i>Chicago,</i>	General, L. and A.
Remick, Andrew Bernard,	<i>Trenton,</i>	Business.
Remick, Arthur Taylor,	<i>Trenton,</i>	Architecture.
Reynolds, Fred Martin,	<i>Riverside,</i>	Civil Eng'g.
Richardson, Carl Barrows,	<i>Tampico,</i>	Civil Eng'g.
Richey, Lilian Belle,	<i>Urbana,</i>	General Science.
Ricketts, Hugh Chambers,	<i>Charleston,</i>	General, L. and A.
Robertson, Norman Sumner,	<i>Beardstown,</i>	Business.
Robinette, Eva Mae,	<i>Urbana,</i>	General, L. and A.
Robinson, Charles Sumner,	<i>Englewood,</i>	Chemistry.
Robinson, Estelle Pearl,	<i>Urbana,</i>	Music.
Robinson, Hattie Jean,	<i>Champaign,</i>	Household Science.
Robor, Bruno,	<i>Mt. Vernon,</i>	Civil Eng'g.
Rolfe, Amy Lucile,	<i>Champaign,</i>	General Science.
Rosecrans, Bennett Paine,	<i>Champaign,</i>	Civil Eng'g.
Ross, Roy Van,	<i>White Hall,</i>	General, L. and A.

Rowland, Claude Kerlin,	<i>Martinsville,</i> General, L. and A.
Roy, Rose Elizabeth,	<i>Anna,</i> Music.
Ryan, Jessie,	<i>Paris,</i> General, L. and A.
St. John, Alfred Harvey,	<i>Utica,</i> Mechanical Eng'g.
Sampson, Harry Coolidge,	<i>Highland Park,</i> Civil Eng'g.
Sanders, John James,	<i>Chicago,</i> Civil Eng'g.
Schafmayer, Albert James,	<i>Scales Mound,</i> Civil Eng'g.
Schaller, Alwin,	<i>Mendota,</i> Mechanical Eng'g.
Schertz, Albert Charles,	<i>Tiskilwa,</i> Business.
Schertz, Joseph William,	<i>Tiskilwa,</i> Business.
Schroeder, William Frederick,	<i>Rock Island,</i> Electrical Eng'g.
Schumacher, Louis Gustav,	<i>St. Joseph, Mo.,</i> Electrical Eng'g.
Scott, Harriett May,	<i>Chicago,</i> Household Science.
Scott, James Robinson, Jr.,	<i>Champaign,</i> Civil Eng'g.
Scott, Miriam Elsie,	<i>Chicago,</i> General, L. and A.
Scott, Orlando Franke,	<i>Newton,</i> Prep. to Medicine.
Scott, William Renick,	<i>Seymour,</i> Electrical Eng'g.
Seaman, Arthur Terwilliger,	<i>Elgin,</i> Civil Eng'g.
Sellards, Clotine Woodroe,	<i>Champaign,</i> General, L. and A.
Sexton, Ralph Ernest,	<i>Enid, O. T.,</i> Civil Eng'g.
Shade, Henry Roscoe,	<i>Bloomington,</i> Agriculture.
Shade, Imogen,	<i>Bloomington,</i> General, L. and A.
Shamhartt, Lola Grace,	<i>Champaign,</i> General, L. and A.
Shaw, Hazel Yearsley,	<i>Urbana,</i> General, L. and A.
Sheen, James Gordon,	<i>Gibson, City,</i> Prep. to Medicine.
Shelley, Frank Henry, Jr.,	<i>Oklahoma City, Okla.,</i> General, L. and A.
Sheppard, Lawrence Dunlap,	<i>Keokuk, Ia.,</i> Civil Eng'g.
Shoot, Bonnie Seabolt,	<i>Charleston,</i> General, L. and A.
Simpson, Keith Stith,	<i>Carrollton,</i> General, L. and A.
Sivertson, Leon Frederick,	<i>Paloma,</i> Mechanical Eng'g.
Slaymaker, Charles Monroe,	<i>Genesco,</i> Civil Eng'g.
Sloane, Robert Hugh,	<i>Missoula, Mont.,</i> Mech. Eng'g.
Smejkal, Joseph Anton, Jr.,	<i>Chicago,</i> Civil Eng'g.
Smith, Claude Everett,	<i>Springfield,</i> Electrical Eng'g.
Smith, Helen Brownell,	<i>Chicago,</i> General, L. and A.
Smith, Lowell Babcock,	<i>Sycamore,</i> General, L. and A.
Smith, Mabel,	<i>Urbana,</i> General, L. and A.
Smith, Sidney Benjamin,	<i>Springfield,</i> General, L. and A.
Somers, Florence Barbara,	<i>El Paso,</i> General, L. and A.
Southwick, Joe Dare,	<i>Flora,</i> Business.

Spencer, Clifford Ricker,	<i>Champaign,</i>	Architecture.
Sprague, Florence Olive,	<i>Lockport,</i>	General, L. and A.
Spray, Edith Lillian,	<i>Arlington Heights,</i>	Gen., L. & A.
Sprecher, Louis Harrison, Jr.,	<i>Lanark,</i>	Agriculture.
Stahl, Lloyd Richard,	<i>Chillicothe,</i>	Electrical Eng'g.
Stahl, William Love,	<i>Chicago,</i>	General, L. and A.
Staker, Fred Merwyn,	<i>Clayton,</i>	General, L. and A.
Stearns, Earl Downing,	<i>Champaign,</i>	Mechanical Eng'g.
Stevens, Parker Gilbert,	<i>Mazon,</i>	Electrical Eng'g.
Stevenson, Otis Ralph,	<i>Geneseo,</i>	Electrical Eng'g.
Stewart, Walter Morgan,	<i>Evanston,</i>	Electrical Eng'g.
Stitt, William Clarence,	<i>Onarga,</i>	Mechanical Eng'g.
Stoddard, Nina Lovejoy,	<i>Oak Park,</i>	General, L. and A.
Straight, Fleda DeVere,	<i>Fonda, Ia.,</i>	Library, L. and A.
Straight, Halver Rufus,	<i>Fonda, Ia.,</i>	Mechanical Eng'g.
Strauch, Oswald Frederick,	<i>Chadwick,</i>	Mechanical Eng'g.
Strawn, John Elliot,	<i>Peoria,</i>	Mechanical Eng'g.
Strombeck, George Mauritz,	<i>Moline,</i>	Mechanical Eng'g.
Swartz, Mary Katharine,	<i>Urbana,</i>	General, L. and A.
Swigart, Lois Edna,	<i>Champaign,</i>	General, L. and A.
Tarnoski, Edward Romaine,	<i>Chicago,</i>	Civil Eng'g.
Tarnoski, Paul Thaddeus,	<i>Chicago,</i>	Chemical Eng'g.
Taylor, Fred Coe,	<i>Chicago,</i>	Civil Eng'g.
Taylor, George Alexander,	<i>St. Louis, Mo.,</i>	Civil Eng'g.
Taylor, Lee Steward,	<i>Chicago,</i>	Civil Eng'g.
Taylor, Roy Elmer,	<i>Normal,</i>	Agriculture.
Teruel, Carlos Garcia,	<i>Mexico City, Mex.,</i>	Elec. Eng'g.
Thomas, Herbert Grout,	<i>Moline,</i>	Municipal Eng'g.
Thomas, Minnie Etta,	<i>Chicago,</i>	General, L. and A.
Thompson, Emmet Collins,	<i>Byron,</i>	Mechanical Eng'g.
Thomson, Fred Newton,	<i>Paxton,</i>	Agriculture.
Tilden, Elmer,	<i>Canton, O.,</i>	Architecture.
Tornquist, Charles Herman,	<i>Donovan,</i>	Civil Eng'g.
Townsend, Jestena Kathryn,	<i>Marion,</i>	General, L. and A.
Trees, Merle J,	<i>Frankfort, Ind.,</i>	Civil Eng'g.
Triebel, Otto Louis, Jr.,	<i>Springfield,</i>	Electrical Eng'g.
Troxell, Lula,	<i>Edinburg,</i>	General, L. and A.
Tryon, Floyd Clinton,	<i>Woodstock,</i>	Mechanical Eng'g.
Tull, Jessie Ann,	<i>Farmer City,</i>	General, L. and A.
Tull, Nelson Grover.	<i>Farmer City,</i>	General, L. and A.
Ullrich, Clara,	<i>Champaign,</i>	General, L. and A.

Vaile, DeWitt Clinton,	<i>Rochelle,</i>	Prep. to Medicine.
Vandagriff, Carl William,	<i>Cantrall,</i>	Civil Eng'g.
VanDoren, Carl Clinton,	<i>Urbana,</i>	General, L. and A.
Vanneman, Harry Walter,	<i>Urbana,</i>	General, L. and A.
VanVoorhis, Bentley Morton,	<i>Tuscola,</i>	Business.
Vasen, Maurice Eschner,	<i>Quincy,</i>	General, L. and A.
Vollert, Helen Magdeline,	<i>Champaign,</i>	General, L. and A.
Wade, Reginald Nazer,	<i>Chicago,</i>	Civil Eng'g.
Wall, Richard James Francis,	<i>Chicago,</i>	Architectural Eng'g.
Walters, Bertha Evelyn,	<i>Woodstock,</i>	General, L. and A.
Ward, Henry Ben,	<i>Mt. Vernon,</i>	Business.
Ward, Owen Martin,	<i>Champaign,</i>	Electrical Eng'g.
Warner, Harry Wallace,	<i>Flora,</i>	Civil Eng'g.
Warner, Victor Eugene,	<i>Flora,</i>	Business.
Weakley, Howard Grafton,	<i>Shelbyville,</i>	Business.
Waterman, Helen Elizabeth,	<i>Davenport, Ia.,</i>	General, L. and A.
Webster, Arthur Lake,	<i>Wheaton,</i>	Civil Eng'g.
Weilepp, Carl Nogle,	<i>Cisco,</i>	General, L. and A.
Welch, Frank Marshall,	<i>Aurora,</i>	Electrical Eng'g.
West, Porter Royal,	<i>Watseka,</i>	Mechanical Eng'g.
White, Anna Blanchard,	<i>St. Joseph, Mo.,</i>	Gen., L. and A.
White, Charley Calvin,	<i>Pittsfield,</i>	Agriculture.
Wierman, William Henry,	<i>McNabb,</i>	Civil Eng'g.
Wilbern, George Earle,	<i>Carpentersville,</i>	Architecture.
Wiley, Ralph Emerson,	<i>Sullivan,</i>	Agriculture.
Wilkinson, Mary Stanclyffe,	<i>Champaign,</i>	Library, L. and A.
Williams, Clement Clarence,	<i>Banner,</i>	Civil Eng'g.
Williams, George Aimis,	<i>Galva,</i>	Electrical Eng'g.
Williams, Thomas Thompson,	<i>Murphysboro,</i>	Electrical Eng'g.
Williamson, Maude,	<i>Jackson, Minn.,</i>	Gen., L. and A.
Wilson, Hugh Edward,	<i>Mason City,</i>	General, L. and A.
Winders, Bess May,	<i>Urbana,</i>	General, L. and A.
Winn, Claude Ethelbert,	<i>Paris,</i>	Civil Eng'g.
Winter, Bain Edward,	<i>Charleston,</i>	Business.
Wolff, Grover Cleveland,	<i>Mendota,</i>	Agriculture.
Wood, Harvey Chase,	<i>Mt. Pulaski,</i>	Mechanical Eng'g.
Woodin, Ernest Clair,	<i>St. Joseph,</i>	Mechanical Eng'g.
Worthen, Jeannette Lamb,	<i>Warsaw,</i>	General, L. and A.
Wright, Helen Gertrude,	<i>Toulon,</i>	General, L. and A.
Wright, William Price,	<i>Libertyville,</i>	Civil Eng'g.
Wroughton, Walter Howard,	<i>Aurora,</i>	Mechanical Eng'g.

Wyman, Edmond Stanley,	<i>Sycamore,</i>	Agriculture.
Yale, Louise Pomeroy,	<i>St. Joseph, Mo.,</i>	Househ'd Science.
Yant, Raymond Cliff,	<i>Keokuk, Ia.,</i>	Civil Eng'g.
Yeck, Charles Walter,	<i>Flora,</i>	Prep. to Medicine.
Young, James Nicholas, Jr.,	<i>Chicago,</i>	Civil Eng'g.
Young, Roy Mercer,	<i>Springfield,</i>	Civil Eng'g.
Zaerr, Byron Leslie,	<i>Chicago,</i>	Electrical Eng'g.
Zelenka, Joseph James,	<i>Savanna,</i>	Railway Eng'g.
Ziegler, Jacob Frank,	<i>Clinton,</i>	Agriculture.
Ziemer, Otto William,	<i>Palatine,</i>	General, L. and A.
Zurhorst, Mary Louisa,	<i>Sandusky, O.,</i>	General, L. and A.

## SPECIALS

Abbott, Alice,	<i>Urbana,</i>	Physical Training.
Abbott, Cary Lorin,	<i>Leverett,</i>	General, L. and A.
Alley, William Edwin,	<i>Champaign,</i>	Mechanical Eng'g.
Alyea, Erma Nannie,	<i>Urbana,</i>	Music.
Anderson, Florence Marion,	<i>Mahomet,</i>	Music.
Anderson, Ray Holton,	<i>Chicago,</i>	Civil Eng'g.
Andree, John William,	<i>Greenview,</i>	Electrical Eng'g.
Angle, Ray William,	<i>Freeport,</i>	Agriculture.
Apple, John Emerson,	<i>Palestine,</i>	Agriculture.
Baldwin, Frank,	<i>Ipava,</i>	Agriculture.
Barker, Frank, Jr.,	<i>Rochelle,</i>	Chemistry.
Basting, Fred,	<i>Yuton,</i>	Agriculture.
Bedwell, Walter Leroy,	<i>Kemp,</i>	Agriculture.
Beers, Harley Minard,	<i>Chicago,</i>	Electrical Eng'g.
Benedict, Herbert Bernard,	<i>Chicago,</i>	Civil Eng'g.
Bensyl, Kate Grace,	<i>Urbana,</i>	Music.
Betzelberger, George J,	<i>Delavan,</i>	Agriculture.
Betzelberger, John Logan,	<i>Delavan,</i>	Agriculture.
Bickel, William Rollen,	<i>DeLand,</i>	Music.
Bickley, Ernest Angelo,	<i>Kinbrae, Minn.,</i>	Civil Eng'g.
Biggar, Charles Howatt,	<i>Danville,</i>	Architecture.
Boggs, Mrs. Grace Lindley,	<i>Urbana,</i>	Art and Design.
Bowen, Ai Pine,	<i>Ottawa,</i>	Agriculture.
Bowling, Benjamin Lester,	<i>Champaign,</i>	Civil Eng'g.
Boyer, Joseph Daniel,	<i>Gratz, Pa.,</i>	Architecture.
Braga, Eduardo de Andrade,	<i>Rio Janeiro, S. A.,</i>	Elec. Eng'g.
Brock, George Wallen,	<i>Dubuque, Ia.,</i>	Chemistry.
Bronson, Eugene Victor,	<i>Urbana,</i>	General Science.

Brooker, Mrs. Nellie Danely, A.		
B. ( <i>Northwestern Univ.</i> ), 1897,	<i>Urbana,</i>	Art and Design.
Brower, Florence,	<i>Urbana,</i>	Music.
Bundy, Clyde Talbot,	<i>Iroquois,</i>	General Science.
Busey, Frank Augusta,	<i>Urbana,</i>	Music.
Busey, Marietta Ruth, A. B.		
( <i>Vassar Coll.</i> ), 1899,	<i>Urbana,</i>	Music.
Carr, Charles Clement,	<i>Avon,</i>	Electrical Eng'g.
Carson, Luvilla Bardwell,	<i>Champaign,</i>	Music.
Catron, Bruce Hurd,	<i>Ipava,</i>	Civil Eng'g.
Cavanaugh, Bert Martin,	<i>Kewanee,</i>	General, L. and A.
Chadwick, Walter,	<i>Chicago,</i>	Mechanical Eng'g.
Chapman, Wesley Mason,	<i>Cedar Rapids, Ia.,</i>	Elec. Eng'g.
Chesnut, Jessie May,	<i>Hartsburg,</i>	General, L. and A.
Chester, Maybelle,	<i>Champaign,</i>	Music.
Christman, Hermann, Jr.,	<i>Findlay,</i>	Agriculture.
Clark, Kenneth Winston,	<i>Griggsville,</i>	Agriculture.
Clark, Ruth Wealthy,	<i>Vandalia,</i>	Household Science.
Clayton, Emanuel Harry,	<i>Dixon,</i>	Prep. to Medicine.
Cochran, Jennie,	<i>Spring Valley,</i>	Art and Design.
Cockayne, Ava,	<i>Homer,</i>	Music.
Coddington, John Athen,	<i>Delavan,</i>	Agriculture.
Cohen, Bert,	<i>Chicago,</i>	Mechanical Eng'g.
Cole, Harry John,	<i>Ridgefarm,</i>	Agriculture.
Collins, Edra Louise,	<i>Urbana,</i>	Music.
Conrad, David Emanuel,	<i>Woodhull,</i>	Agriculture.
Cornell, Dick Hadwin,	<i>Cornell,</i>	Electrical Eng'g.
Crathorne, Annie Ellen,	<i>Champaign,</i>	General, L. and A.
Crawford, Emma,	<i>Urbana,</i>	Art and Design.
Dancey, Walter Edward,	<i>Fairbury,</i>	Mechanical Eng'g.
Davidson, Nell Jeannette,	<i>Champaign,</i>	Music.
Davis, Hattie Rozella,	<i>Bondville,</i>	Music.
Dazey, Harry Lewis,	<i>Dallas, Tex.,</i>	Architecture.
Deal, Hiram Linus,	<i>Taylorville,</i>	Agriculture.
DeLong, Alton George,	<i>Foosland,</i>	Art and Design.
Dewey, Louise Sarah, M. S., 1899,	<i>Urbana,</i>	General, L. and A.
Dickson, Floyd Harrison,	<i>Hampshire,</i>	Business.
Dietrich, Mrs. Matilda,	<i>Urbana,</i>	Music.
Dillon, Ruth Lillian,	<i>Sheldon,</i>	Music.
Donaldson, Henry Bardwell,	<i>Dixon,</i>	Prep. to Medicine.
Donigan, Frank Lyle,	<i>Dwight,</i>	Mechanical Eng'g.



Donnelly, Wade,	<i>Anderson, Ind.,</i>	Agriculture.
Dougherty, Floyd Everett,	<i>Fairmount,</i>	Architecture.
Draper, Charlotte Leland,	<i>Urbana,</i>	Art and Design.
Dryden, William Duff,	<i>Trilla,</i>	Architectural Eng'g.
Dugan, Earl N,	<i>Perry, Ia.,</i>	Architecture.
Edwards, Ben Chase,	<i>Mazon,</i>	General, L. and A.
Eidmann, Gustav Herman, B. S.,		
1903,	<i>Mascoutah,</i>	General Science.
Ellis, Charles Marion,	<i>Vandalia,</i>	Architecture.
Ensign, George DeWitte,	<i>Roberts,</i>	Agriculture.
Erickson, John Henry,	<i>Hoopeston,</i>	Agriculture.
Essington, Thurlow Gault,	<i>Streator,</i>	General, L. and A.
Etherton, Harmon James,	<i>E. St. Louis,</i>	Architecture.
Evans, Martin Edward,	<i>Chebense,</i>	Mechanical Eng'g.
Ewan, William Clayton,	<i>Cuba,</i>	General, L. and A.
Farnsworth, George Lester,	<i>Ottawa,</i>	Civil Eng'g.
Feageans, Fea,	<i>Chicago,</i>	Electrical Eng'g.
Field, Oscar O,	<i>Nora Springs, Ia.,</i>	Agriculture.
Finley, Joseph Orton,	<i>Oneida,</i>	Agriculture.
Fisher, Clara Edna, A. B., 1903,	<i>Champaign,</i>	Music.
Fleming, Marcella Augusta,	<i>Bement,</i>	Music.
Ford, Clyde D,	<i>Geneseo,</i>	Agriculture.
Fraser, Mrs. Alice Eaton,	<i>Champaign,</i>	Music.
Freeman, Perry John,	<i>Georgesville, O.,</i>	Mech. Eng'g.
French, Mrs. Laura Woodward,	<i>Urbana,</i>	Music.
Gaddis, Zoe,	<i>Bondville,</i>	Music.
Garrett, Gracie Gertrude,	<i>Media,</i>	Art and Design.
George, Sedella May,	<i>Champaign,</i>	Music.
Gere, Clara,	<i>Champaign,</i>	Music.
Gill, Mrs. Rudolph Zerse,	<i>Urbana,</i>	Music.
Gillmore, George Boothe,	<i>Urbana,</i>	Civil Eng'g.
Girty, Mrs. Jennie Nettie,	<i>Urbana,</i>	Music.
Goble, Arthur Steen,	<i>Earlville,</i>	Chemistry.
Graves, Clinton Henry,	<i>Urbana,</i>	Music.
Groom, Etta Frances,	<i>Urbana,</i>	Music.
Groom, William Curtis,	<i>Urbana,</i>	Art and Design.
Gurr, William Walter,	<i>Chicago,</i>	Mechanical Eng'g.
Gutmann, Ludwig,	<i>Peoria,</i>	Electrical Eng'g.
Gutzman, George William,	<i>Ft. Worth, Tex.,</i>	Arch. Eng'g.
Gwinn, Avis,	<i>Urbana,</i>	Art and Design.
Haines, Mary Martha,	<i>Champaign,</i>	Music.

Hall, Lloyd Quin,	<i>Lacon,</i>	Art and Design.
Hall, Willis William,	<i>Rockford,</i>	Chemistry.
Hammond, Emily Jane,	<i>Bement,</i>	General, L. and A.
Harris, George Gabriel,	<i>Joliet,</i>	Mechanical Eng'g.
Harris, Gertrude Rudelle,	<i>Urbana,</i>	Music.
Harris, James Wilbur,	<i>Grant Park,</i>	Agriculture.
Haselwood, John Marion,	<i>Blandinsville,</i>	Agriculture.
Hauter, Lena Belle,	<i>Tiskilwa,</i>	General, L. and A.
Hayes, Augustus Washington,	<i>Pleasant Plains,</i>	Agriculture.
Hayes, Percy Clifton,	<i>Galva,</i>	Business.
Helm, Mabel Jane,	<i>Homer,</i>	Music.
Henry, John Earl,	<i>Tippecanoe City, O.,</i>	Architecture.
Herriott, Ombra,	<i>Urbana,</i>	Music.
Hester, Edna Adell,	<i>Carbondale,</i>	Library.
Hester, Herbert Henry,	<i>Carbondale,</i>	Agriculture.
Hickey, Rachel,	<i>Urbana,</i>	Music.
Hill, Arthur Howard,	<i>Dundee,</i>	Agriculture.
Hill, Josephine Lowell,	<i>Fillmore,</i>	Music.
Hinchcliff, Fred,	<i>Chicago,</i>	Architecture.
Holderby, William Matthew,	<i>Cairo,</i>	General, L. and A.
Holms, Henry Carl,	<i>Lockport,</i>	Agriculture.
Howe, Harriet Emma, B. L. S., 1902,	<i>Urbana,</i>	Music.
Howell, Ernest Alexander,	<i>Ipava,</i>	Electrical Eng'g.
Howser, Herman Blaine,	<i>Urbana,</i>	Agriculture.
Hoxsey, John Decatur,	<i>Serena,</i>	Agriculture.
Hulteen, Victor Emaul,	<i>Buda,</i>	Mechanical Eng'g.
Hyde, Rosa Kate,	<i>Rising,</i>	Music.
Jackson, Fanny Rebecca, B. L. S., 1903,	<i>Urbana,</i>	Music.
Jayne, Violet Delille, Ph. D., ( <i>Univ. of Mich.</i> ), 1903,	<i>Urbana,</i>	Music.
Johnson, Glenn Van Ness,	<i>Pana,</i>	Art and Design.
Johnson, Homer,	<i>Bloomington,</i>	Agriculture.
Jones, William Morris,	<i>Blomington,</i>	Mechanical Eng'g.
Kammer, Frank James,	<i>Scales Mound,</i>	Civil Eng'g.
Kaufman, Charles Rufus,	<i>Anderson, Ind.,</i>	Architecture.
Kaup, Oscar Benjamin,	<i>Springfield,</i>	General, L. and A.
Keane, Joseph Pernet,	<i>Champaign,</i>	Agriculture.
Ketcham, Lillian, A. B. ( <i>Oberlin Coll.</i> ), 1894,	<i>Chenoa,</i>	General, L. and A.

King, George Chester,	<i>Grant Park,</i>	Agriculture.
King, Julia Frances,	<i>Payson,</i>	Music.
Knorr, Edward Newell,	<i>Chicago,</i>	General, L. and A.
Kuehlcke, Otto,	<i>Davenport, Ia.,</i>	Civil Eng'g.
Kunze, Curt Eugene,	<i>Belvidere,</i>	General, L. and A.
Ladage, Fred William,	<i>Springfield,</i>	Agriculture.
Lafin, Mary Elizabeth,	<i>Champaign,</i>	Music.
Lego, Lulu Mackintosh, LL. B., 1903,	<i>Urbana,</i>	Music.
Leslie, Frank Morton,	<i>Urbana,</i>	Music.
Lindley, Etheldred Frank,	<i>Urbana,</i>	Music.
Lindley, Jessie Salome,	<i>Urbana,</i>	Music.
Logan, Jane,	<i>Dyerville, Cal.,</i>	General, L. and A.
Long, Joseph Ayres,	<i>Amboy,</i>	Civil Eng'g.
Lyons, Daniel Henry,	<i>Bloomington,</i>	Civil Eng'g.
Macalister, Robert Norman,	<i>Chicago,</i>	Mechanical Eng'g.
McDonald, Walter Nimmons,	<i>Chicago,</i>	Architecture.
McFarland, Leslie Harold,	<i>Delavan,</i>	Architecture.
McFarland, Walter E,	<i>Delavan,</i>	Mechanical Eng'g.
McLean, Mrs. Pearl,	<i>Champaign,</i>	Music.
McLean, Walter Randolph,	<i>Macomb.</i>	Chemistry.
Melton, Harvey Leon,	<i>Nebo,</i>	General, L. and A.
Meredith, William Wynn,	<i>Perry,</i>	Civil Eng'g.
Miles, John William,	<i>Urbana,</i>	Agriculture.
Miles, William Davis,	<i>Bement,</i>	General, L. and A.
Miller, Mrs. Laura Shubert,	<i>Urbana,</i>	Music.
Moore, George Augustus,	<i>Humboldt,</i>	Agriculture.
Moore, Lou Belle,	<i>Zearing,</i>	Music.
Moore, Lucy Kate,	<i>Tolono,</i>	Music.
Morrison, John,	<i>Bloomington,</i>	Civil Eng'g.
Mosiman, Clara,	<i>Morton,</i>	General Science.
Mowder, Clyde Leroy,	<i>Havana,</i>	Civil Eng'g.
Murdock, Cleveland Lynne,	<i>Havana,</i>	General, L. and A.
Murphy, James Russell,	<i>Elkhart,</i>	Electrical Eng'g.
Musgrove, Fred G,	<i>Vermont,</i>	Agriculture.
Naftel, George W,	<i>Crowley, La.,</i>	Mechanical Eng'g.
Nelson, Kathryn Estelle,	<i>Champaign,</i>	Music.
Newton, Harley Bounds,	<i>Edwards, Ind.,</i>	Agriculture.
Nuckolls, Mary Elizabeth,	<i>Urbana,</i>	Music.
O'Brien, Morgan Patrick,	<i>Champaign,</i>	Civil Eng'g.
O'Connell, Nellie E,	<i>Champaign,</i>	Music.

O'Connor, Timothy, Jr.,	<i>Hanson,</i>	Civil Eng'g.
Off, Charles David,	<i>Peoria,</i>	Agriculture.
O'Neal, Fred Raggan,	<i>Arnold,</i>	Agriculture.
Ordell, Franklin,	<i>Philo,</i>	Mechanical Eng'g.
Padfield, Frank Wilbur,	<i>Carlinville,</i>	Electrical Eng'g.
Palmer, Frederick H,	<i>Seattle, Wash.,</i>	Architecture.
Parker, Minnie Lockette,	<i>Ghent, Ky.,</i>	Music.
Pelton, Mrs. Martha Corwine,	<i>Cincinnati, O.,</i>	Library.
Peterson, Robert,	<i>Champaign,</i>	Chemistry.
Pfeffer, Frank,	<i>Champaign,</i>	Agriculture.
Phipps, Thomas Elmer,	<i>Janesville,</i>	Civil Eng'g.
Pierce, Park Mathew,	<i>Galesburg,</i>	Mechanical Eng'g.
Pitts, Lewis Edgar,	<i>McLean,</i>	Agriculture.
Pitts, Ralph Lowell,	<i>McLean,</i>	Agriculture.
Post, Ethel Ann,	<i>Fithian,</i>	Music.
Powell, Jessie Alexander,	<i>Corydon, Ky.,</i>	General, L. and A.
Pratt, Fred Aurcher,	<i>Waterloo, Ia.,</i>	Architecture.
Prendergast, James Joseph,	<i>Chicago,</i>	Civil Eng'g.
Prutsman, Lucy Catharine,	<i>Urbana,</i>	Music.
Read, Lottie Campbell,	<i>Grand Ridge,</i>	Music.
Reno, John Franklin,	<i>Browning,</i>	Mechanical Eng'g.
Reynolds, Ernest Hunter,	<i>Tiskilwa,</i>	Agriculture.
Rice, Roscoe McDaniel,	<i>Gillespie,</i>	Agriculture.
Richey, Fred William,	<i>Kansas,</i>	Mechanical Eng'g.
Ricketts, Clara Agnes,	<i>Champaign,</i>	Music.
Riehl, Walter Allen,	<i>Alton,</i>	Agriculture.
Risser, Ruby Blanche,	<i>Blandinsville,</i>	General, L. and A.
Robinson, Mrs. Elinor Corse,	<i>Urbana,</i>	Music.
Robinson, Florence Elinor,	<i>Urbana,</i>	Music.
Rolfe, Susie Farley, A. B., 1903,	<i>Champaign,</i>	Music.
Rose, Rebecca Ann,	<i>Windsor,</i>	Art and Design.
Ross, Walter Raleigh,	<i>Canton,</i>	Electrical Eng'g.
Rothgeb, Claude James,	<i>Milford,</i>	Agriculture.
Russell, Levi Douglas,	<i>Chicago,</i>	Music.
Rutherford, Evah Lucinda,	<i>Oakland,</i>	Art and Design.
Salisbury, Lucy Tomlin,	<i>Louisville, Ky.,</i>	Music.
Saxton, Eva Iola,	<i>Sumner,</i>	Music.
Schober, Max William,	<i>Green Bay, Wis.,</i>	Architecture.
Schreiber, Otto William,	<i>Chicago,</i>	Business.
Schulte, Loretta,	<i>Hopedale,</i>	Music.
Schulte, Mabel, A. B., 1902,	<i>Hopedale,</i>	Music.

Scott, Gertrude,	<i>Harrisburg,</i>	General, L. and A.
Scott, Margaret Annie,	<i>Urbana,</i>	General, L. and A.
Scruggs, Amos Potter,	<i>Springfield,</i>	General, L. and A.
Seddon, Herbert Roy,	<i>Kansas City, Mo.,</i>	Architecture.
Setchell, Harry Clayton,	<i>Mendota,</i>	Agriculture.
Shaff, Nellie Florence,	<i>Urbana,</i>	Music.
Shannon, Kathryn Robertine,	<i>Peoria,</i>	Music.
Sharer, John Chalmers,	<i>Alexis,</i>	General, L. and A.
Shaw, Guy Loren,	<i>Summer Hill,</i>	Agriculture.
Shepherd, Jacob Henry,	<i>Urbana,</i>	Agriculture.
Shepherd, Louis Pitner,	<i>Springfield,</i>	Agriculture.
Shurtz, Mrs. May Gooding,	<i>Champaign,</i>	Music.
Simpson, Emma Jane,	<i>Pana,</i>	Music.
Slaughter, Emma Edna,	<i>Fairbury,</i>	Music.
Smith, Clara Mabel,	<i>Champaign,</i>	General, L. and A.
Smith, Daisy Frances,	<i>Auburn,</i>	Music.
Smith, David Turpie,	<i>Indianapolis, Ind.,</i>	Gen., L. and A.
Smith, Erasmus Edward,	<i>Modena,</i>	Business.
Smith, Helen Amelia,	<i>Sidney,</i>	Music.
Smith, William Edmund,	<i>Rock Island,</i>	Mechanical Eng'g.
Soverhill, Wilber Rowe,	<i>Tiskilwa,</i>	Agriculture.
Spear, William Roy,	<i>Mason City,</i>	Agriculture.
Spitler, John Clyde,	<i>Montrose,</i>	Agriculture.
Staley, Elza,	<i>Champaign,</i>	Music.
Staples, Oren Elmer,	<i>Champaign,</i>	Music.
Stark, Thomas Henry,	<i>Central City, Ia.,</i>	Prep. to Med'ne.
Stebbins, Roy,	<i>Summer Hill,</i>	Agriculture.
Stocker, Edward LeRoy,	<i>Chicago,</i>	Mechanical Eng'g.
Stoner, Inez Amanda,	<i>Paxton,</i>	Art and Design.
Sutton, William D,	<i>Urbana,</i>	Art and Design.
Strauch, Bernard Andrew,	<i>Chadwick,</i>	Mechanical Eng'g.
Swartz, Earl William,	<i>Urbana,</i>	Agriculture.
Swayne, Juliet Robinson,	<i>Richmond, Ind.,</i>	Music.
Swisher, Samuel Porter,	<i>Mendota,</i>	Agriculture.
Taylor, Joseph Walkinshaw,	<i>Chicago,</i>	Mechanical Eng'g.
Tenney, Walter Eugene,	<i>Bloomington,</i>	Agriculture.
Thomas, Samuel,	<i>Thomasville,</i>	Agriculture.
Tracy, Grover Wymer,	<i>Dixon,</i>	Agriculture.
Treichel, Henry George,	<i>Chicago,</i>	Electrical Eng'g.
Trevett, Bessie Harriette,	<i>Champaign,</i>	Music.
Truman, Lenora,	<i>Urbana,</i>	General, L. and A.

Turnbull, Guy Allen,	<i>Van Orin,</i>	Mechanical Eng'g.
Vance, Earle Wandell,	<i>Elmwood,</i>	Mechanical Eng'g.
VanDervoort, Maude Eliza,	<i>Lexington,</i>	Music.
VanMeter, Anna Roberta,	<i>Urbana,</i>	Household Science.
VanMeter, Helen Jane,	<i>Urbana,</i>	Architectural Eng'g.
Vennum, Ernest Madge,	<i>Champaign,</i>	Music.
Walsh, Richard Sylvester, Jr.,	<i>Chicago,</i>	Mechanical Eng'g.
Walkden, Chester Arthur,	<i>Elyria, O.,</i>	Agriculture.
Warne, John Henry,	<i>Batavia,</i>	Agriculture.
Warner, James Madison,	<i>Chicago,</i>	Civil Engineering.
Washburn, Samuel Edward,	<i>Fairmount,</i>	Mechanical Eng'g.
Waterbury, Mrs. Leslie Abram,	<i>Urbana,</i>	Music.
Weaver, Charles Arthur,	<i>Rosemond,</i>	Mechanical Eng'g.
Wehrman, Cora,	<i>Sadorus,</i>	Music.
Wellman, William Thomas,	<i>Masonville, Ky.,</i>	Architecture.
Wells, Minnie Opal,	<i>Urbana,</i>	Art and Design.
Westrup, Carl,	<i>Mattoon,</i>	Agriculture.
White, Augustus Ray,	<i>Mattoon,</i>	Mechanical Eng'g.
Whitney, Max Brooks,	<i>Lostant,</i>	General, L. and A.
Wilder, Edson Alexander,	<i>Pontiac,</i>	Mechanical Eng'g.
Wilgus, Carl B.,	<i>Conover, O.,</i>	Agriculture.
Williams, Howard Carr,	<i>Richmond, Ind.,</i>	Architecture.
Wilson, Iva Pearle,	<i>Champaign,</i>	Music.
Wilson, Ralph William,	<i>Monmouth,</i>	Architecture.
Wise, Elmer Jason,	<i>Potomac,</i>	Agriculture.
Wolf, Arthur Alfred,	<i>Farina,</i>	Art and Design.
Wolf, Will Charles,	<i>Freeburg,</i>	General Science.
Woodcock, Harriett Elizabeth,	<i>Champaign,</i>	Art and Design.
Woodham, Harry,	<i>Albion,</i>	General, L. and A.
Woolman, Albert Jefferson, M. S. ( <i>Indiana State Univ.</i> ), 1895,	<i>Urbana,</i>	Agriculture.
Wright, Edward Butler,	<i>Lawrence, Mich.,</i>	Civil Eng'g.
Wyles, Selwyn Madison,	<i>Nauvoo,</i>	Agriculture.
Wright, Eleanor Matilda,	<i>Toulon,</i>	General, L. and A.
Yates, Thomas Monroe,	<i>Griggsville,</i>	Agriculture.
Yeager, Clive,	<i>Newman,</i>	Electrical Eng'g.
Ziegler, Wilfred Ivanhoe,	<i>Clinton,</i>	Agriculture.

## SPECIALS IN COLLEGE OF AGRICULTURE, pp. 70, 71.

Ainsworth, William Thomas Arthur,	<i>Saidora.</i>
Allison, Ira Dent,	<i>Alpha.</i>
Bader, Clarence Virgil,	<i>Baders.</i>
Bader, Howard Orland,	<i>Baders.</i>
Baker, Hugh Clark,	<i>Manhattan.</i>
Barton, Burt Wells,	<i>Pleasant Hill.</i>
Berry, Frank Stuart,	<i>Pleasant Hill.</i>
Bidamon, Charles Arthur,	<i>Nauvoo.</i>
Block, Walter Robert,	<i>Champaign.</i>
Bogges, Thomas Ellsworth,	<i>Georgetown.</i>
Bracker, Emil Mark Diedrich,	<i>Hillsdale.</i>
Branch, Lloyd Henry,	<i>Kingston.</i>
Bridge, Glenn Fero,	<i>Galesburg.</i>
Brinkerhoff, Siebert William,	<i>Redmon.</i>
Bronk, Ernest Leroy,	<i>Plainfield.</i>
Bronson, George Durrill,	<i>Urbana.</i>
Brooks, Ira Sandford,	<i>Beecher City.</i>
Brown, Fred Eubeling,	<i>Danville.</i>
Brown, Marshall Asbury,	<i>Decatur.</i>
Campbell, Allan Barry,	<i>La Harpe.</i>
Campbell, Charles Harvey,	<i>Danville.</i>
Candor, David Bopes,	<i>Aledo.</i>
Chester, Edward Everett,	<i>Champaign.</i>
Christanson, Oscar Karl,	<i>Cambridge.</i>
Conover, Roy Earl,	<i>Little Indian.</i>
Cornell, Noah Pike,	<i>Sugar Grove.</i>
Cory, Anna Elizabeth,	<i>Hillsboro.</i>
Craig, John Henry,	<i>Lewistown.</i>
Craig, Stephen James,	<i>Wilmington.</i>
Culver, Harry Wayne,	<i>Athens.</i>
Davis, Albert Edward, Jr.,	<i>Batavia.</i>
Dees, Clyde Ranzer,	<i>Oblong.</i>
Dillinger, Harry,	<i>Carbondale.</i>
Donovan, Marion Arthur.	<i>Mason City.</i>
Dull, Charles Burton,	<i>Tennessee.</i>
Dysart, John Padden,	<i>Granville.</i>
Fairchild, Asa Roy,	<i>Danville.</i>
Ferrell, Caesar,	<i>Carterville.</i>
Folkers, Harry Carl,	<i>Warrensburg.</i>

Follett, Fred Kellogg,	<i>Libertyville.</i>
Freeman, Frank Stewart,	<i>Heyworth.</i>
Funk, Marquis De Loss,	<i>Shirley.</i>
Gaines, Walter Lee,	<i>Crete.</i>
Gaiser, Joseph Edmund,	<i>Charleston.</i>
Gentle, Harry James,	<i>Farmington.</i>
Glasgow, Hugh,	<i>Tennessee.</i>
Glasgow, Robert Douglas,	<i>Tennessee.</i>
Greer, Henry,	<i>Champaign.</i>
Harris, Ray William,	<i>Grant Park.</i>
Heaton, Calvin Frederic,	<i>New Burnside.</i>
Hepburn, Nelson William,	<i>Genoa.</i>
Hertz, Henry Louis, Jr.,	<i>Chicago.</i>
Hertz, Martin Power,	<i>Chicago.</i>
Hinkley, George Meech,	<i>Du Bois.</i>
Holt, Sidney Viel,	<i>Oneida.</i>
Hopkins, William Clyde,	<i>Roodhouse.</i>
Hughes, Kenneth Reece,	<i>Antioch.</i>
Jennings, John Claude,	<i>Fineville.</i>
Jorgensen, Frederick Andreas,	<i>Lombard.</i>
Joy, Harold Pratt,	<i>Chapin.</i>
Kenyon, Eli Daniel,	<i>Athens.</i>
King, George Harlow,	<i>Fairbury.</i>
Kirkpatrick, Carlton A,	<i>St. Joseph.</i>
Larimer, Cassius Stewart,	<i>Chicago.</i>
Leach, Eustace Eugene,	<i>Golden Gate.</i>
Lindsay, Edward Eugene,	<i>Onarga.</i>
Logeman, Louis Valentine,	<i>Chicago.</i>
Lowe, William Albert,	<i>Harness.</i>
Lumby, Charles Louis,	<i>Chicago.</i>
McKee, Russell Vinton,	<i>Washburn.</i>
McLaughlin, Archibald Hugh,	<i>Cartter.</i>
Melvin, Maurice Leland,	<i>Greenfield.</i>
Meyer, Henry Carl,	<i>Wrayville.</i>
Montooth, James Leir,	<i>Toulon.</i>
Morris, Keith Gardner,	<i>Rantoul.</i>
Mortimer, Earl Otis,	<i>Woodson.</i>
Moss, Charles Nash,	<i>Mt. Vernon.</i>
Murphy, Jesse Tomas,	<i>Eldorado.</i>
Musgrave, Oris,	<i>Robinson.</i>
Mustain, Glen Terry,	<i>Sciota.</i>



Nichols, John Sleeper,	<i>Aledo.</i>
Peak, Ernest George,	<i>Marengo.</i>
Penman, Thomas Abraham,	<i>Philo.</i>
Peterson, Tobias,	<i>Newark.</i>
Phillips, Charles Martin,	<i>Arthur.</i>
Pitts, George Walter,	<i>McLean.</i>
Popham, Edwin Sherman,	<i>Charleston.</i>
Pratt, Frank Harvey,	<i>Staley.</i>
Price, Arnold Gear,	<i>Oregon.</i>
Puckett, Claude Erwin,	<i>Warren.</i>
Rains, Noble,	<i>Hutsonville.</i>
Reeves, Howell Hiram,	<i>Champaign.</i>
Rehm, Jacob Albert,	<i>Chicago.</i>
Rittenhouse, Joseph William,	<i>Layton.</i>
Robison, Archie Leslie, Jr.,	<i>Pekin.</i>
Robison, Frank Wilson,	<i>Pekin.</i>
Salyers, Roland,	<i>Monticello.</i>
Seward, Frank Otis,	<i>Marengo.</i>
Shinn, William Ricketts,	<i>Mattoon.</i>
Shuman, Bliss,	<i>Sullivan.</i>
Silliman, Minott,	<i>Toulon.</i>
Simpson, John Alexander Logan,	<i>Pana.</i>
Sinclair, Irvin Alexander,	<i>Cornell.</i>
Sinclair, Lawrence Edwin,	<i>Ashland.</i>
Snyder, Alden Eugene,	<i>Kankakee.</i>
Spencer, Clark Earl,	<i>Canton.</i>
Sprecher, Irvin Sherwood,	<i>Zion City.</i>
Stanner, Guy William,	<i>Mayview.</i>
Stapp, William Oscar,	<i>Rock Island.</i>
Stevenson, Luther,	<i>Cuba.</i>
Stewart, Ralph Walter,	<i>Hanna City.</i>
Stewart, Robert Wright,	<i>Hebron.</i>
Stout, Samuel Philemon,	<i>Springfield.</i>
Stults, Elmer Emerson,	<i>Evanston.</i>
Swan, Archie Elmer,	<i>Waynesville.</i>
Terrell, Roy Walter,	<i>Easton.</i>
Timmons, John Suver,	<i>Monticello.</i>
Tulloch, Warren Milne,	<i>Rockford.</i>
Turbett, James Harris,	<i>Hanna City.</i>
Turner, William Henry,	<i>Butler.</i>
Venters, Grover James,	<i>Baders.</i>

Verhalen, George Frank,	<i>Elmhurst.</i>
Voris, Louis Kirkum,	<i>Neoga.</i>
Wagoner, Joseph Harrison,	<i>Normal.</i>
Ward, Lester Earl,	<i>Decatur.</i>
Warner, Earl Amos,	<i>Marengo.</i>
Webster, George H.,	<i>Pleasant Hill.</i>
Wheeler, Hiram Hannibal,	<i>Chicago.</i>
White, Fred H,	<i>Longview.</i>
Williams, Andrew Price,	<i>Rockford.</i>
Wolf, Louis August,	<i>Farina.</i>
Woodin, Dwight E. J.,	<i>St. Joseph.</i>
Wright, Carl,	<i>Assumption.</i>
Wyeth, Leonard Atwell,	<i>Tuscola.</i>

## SPECIALS IN HOUSEHOLD SCIENCE, p. 70.

Casstevens, Edna Marie,	<i>Fancher.</i>
Cory, Edna Eloise,	<i>Hillsboro.</i>
Hall, Claudia Belle,	<i>Hoopeston.</i>
Hoagland, Jennie May,	<i>Elgin.</i>
Hunt, Agnes,	<i>Ridott.</i>
Jones, Isabel Eliza,	<i>Champaign.</i>
Linn, Margaret Bertha,	<i>Byron.</i>
Logan, Una Mildred,	<i>Flora.</i>
Logan, Winnie Alice,	<i>Edinburg.</i>
McCormick, Mary Ellen,	<i>Verona.</i>
Neville, Jessie Gertrude,	<i>Kinmundy.</i>
Peacock, Lottie Belle,	<i>Urbana.</i>
Powers, Alice Josephine,	<i>Tiskilwa.</i>
Thornton, Sara,	<i>Sadorus.</i>

## SUMMER TERM.

Albayda, Gandencio Alejandro,	<i>Slog Negros, O., P. I.</i>
Allison, Harry Orson,	<i>Alpha.</i>
Anderson, Almor Severin,	<i>La Harpe.</i>
App, Charles Max,	<i>Carmi.</i>
Arps, George Frederick,	<i>Tuscola.</i>
Atwood, Frank Howard,	<i>Dwight.</i>
Baird, Walter Hayes,	<i>Springfield.</i>
Baker, Howard Newell,	<i>Champaign.</i>
Bautista, Antonio Santos,	<i>Malolos, Bulakan, P. I.</i>

Barth, Mary Elizabeth,	<i>Decatur.</i>
Bassett, Breta Pearl,	<i>Leverett.</i>
Beaty, Francis Marion, A. B., 1903,	<i>Urbana.</i>
Berger, John Milton, A. B., 1903,	<i>Dolton Station.</i>
Black, William Zachariah,	<i>Urbana.</i>
Boggs, Lucinda Pearl, Ph. D. ( <i>Halle</i> ), 1901,	<i>Urbana.</i>
Booker, Helen Ethel,	<i>Champaign.</i>
Born, Alda Holderman,	<i>Champaign.</i>
Born, Ora Littlefield,	<i>Champaign.</i>
Borton, Byron Sarver,	<i>De Land.</i>
Bradbury, Charles Freeman,	<i>Arcola.</i>
Braman, Olive Ruth,	<i>Urbana.</i>
Bridge, Glenn Fero,	<i>Galesburg.</i>
Bronson, Frank Lloyd,	<i>Streator.</i>
Brower, Irene,	<i>Champaign.</i>
Brown, Ollie May,	<i>Urbana.</i>
Bumstead, Frank Melvin,	<i>Dundee.</i>
Burford, Cary Clive,	<i>Hoopeston.</i>
Burgener, Claude Emanuel,	<i>Moweaqua.</i>
Burnham, Edna S,	<i>Dixon.</i>
Burroughs, Guy Chaney,	<i>Oregon.</i>
Busey, Frank Augusta,	<i>Urbana.</i>
Butzow, Louis James,	<i>Sidney.</i>
Carmichael, Berton Eugene,	<i>Rochelle.</i>
Carson, Luvilla Bardwell,	<i>Champaign.</i>
Cavazos, Enrique,	<i>Saltillo, Mex.</i>
Cavins, Lorimer Victor,	<i>Mattoon.</i>
Clark, Carrie Adelaide,	<i>Neoga.</i>
Clark, Emma Alberta, A. B., 1902,	<i>Urbana.</i>
Clemons, Clara Josephine,	<i>Clinton.</i>
Conard, Emmett Clyde,	<i>Monticello.</i>
Condit, Charles,	<i>Rantoul.</i>
Cook, Clarabelle,	<i>Urbana.</i>
Cottingham, Wirt,	<i>Trivoli.</i>
Crawford, Joseph Henry, M. S. ( <i>Wilber-</i> <i>force Univ.</i> ), 1903,	<i>Prairie View, Tex.</i>
Cresap, Fred,	<i>Cushman.</i>
Cunningham, Jessie Helene,	<i>Normal.</i>
Curtiss, Albert Root,	<i>Urbana.</i>
Davis, John Wolfersperger,	<i>Sterling.</i>

Davison, Anna Mary,	Monticello.
Demitz, Charles Henry,	Baltimore, Md.
De Puy, Orval Carl,	Urbana.
Derr, Harry Benjamin,	Champaign.
Dewey, Louise Sarah, M. S., 1899,	Urbana.
Dickhut, Otto,	Mascoutah.
Dickinson, Harry Stanton,	Osgood, Ia.
Dolan, Charles Mark,	Ohio.
Doran, Edwin Wortham, Ph. D. ( <i>Cum- berland Univ.</i> ), 1890,	Mattoon.
Dryden, William Duff,	Trilla.
Ellis, Nannie Isabel,	Windsor.
English, Jesse Thomas,	Isabel.
Evans, Isa Schofield,	El Paso.
Everhart, Leon Ulysses,	Urbana.
Eyman, Mary Evelyena,	Belleville.
Fairweather, Charles Arthur,	McLeansboro.
Farnsworth, George Lester,	Ottawa.
Ferris, Elizabeth,	Champaign.
Ferry, Leroy Clark,	Warrensburg.
Fiedler, George Lewis,	Freeburg.
Fishback, Mason McCloud, A. B., 1901,	Paris.
Forbes, Marjorie Douglas, A. B., 1903,	Urbana.
French, Mrs. Laura Woodward,	Urbana.
Fritter, Clara Theressa,	Normal.
Fritter, Enoch Abraham, A. M. ( <i>Find- lay Coll.</i> ), 1898,	Normal.
Frost, John Henry,	Chicago.
Fuqua, Mrs. Ruth,	Urbana.
Gamble, Jossa Pearle,	Filson.
Garlough, Carl D, A. M. ( <i>Hillsdale Coll.</i> ), 1900,	Stanford.
Gilbreath, Frank Abel,	Loda.
Gilkerson, Frances Emeline, A. B., 1903,	Urbana.
Gillespie, Louella Ida,	Champaign.
Glenn, Eleanor Mae,	Champaign.
Graham, James John,	Springfield.
Gregory, Lenna Mabel,	Moweaqua.
Gregory, William Herbert,	Moweaqua.
Haines, Mary Martha,	Champaign.
Hammers, Lilian,	Champaign.

Hammock, Claude S,	<i>Sioux City, Ia.</i>
Hampton, Ethel Alleyne,	<i>Urbana.</i>
Harper, Edith Elizabeth,	<i>Urbana.</i>
Harris, William,	<i>Morweaqua.</i>
Hawkes, William,	<i>Eureka.</i>
Hazen, Fanny,	<i>Bondville.</i>
Hazen, Rose,	<i>Bondville.</i>
Healy, William James,	<i>Rochelle.</i>
Hemphill, Ethel,	<i>Westfield.</i>
Henion, Lora Atkins,	<i>Urbana.</i>
Hewerdine, Thomas Sloan,	<i>Fisher.</i>
Higinbotham, Pearl,	<i>Champaign.</i>
Hill, Lucy Belle,	<i>Urbana.</i>
Hirzel, Mabel May,	<i>Mt. Pleasant, Mich.</i>
Holcomb, Timothy Osmond, Jr.,	<i>Milmine.</i>
Holloway, Dale,	<i>Danville.</i>
Howe, Harriet Emma, B. L. S., 1902,	<i>Urbana.</i>
Howe, Ralph Barnard,	<i>Urbana.</i>
Howell, Cleves Harrison, Ph. B. ( <i>Woos-</i> <i>ter Univ.</i> ), 1901,	<i>Keokuk, Ia.</i>
Howser, Edith Beryl,	<i>Urbana.</i>
Hughes, Anna Raphael,	<i>Champaign.</i>
Hunt, Glenne,	<i>Dana, Ind.</i>
Hyde, Rosa Kate,	<i>Rising.</i>
Inman, Dean Maxwell,	<i>Sherrard.</i>
Jacobs, Manuel Joseph,	<i>Chicago.</i>
Janssen, Otto,	<i>Los Angeles, Cal.</i>
Jewell, Benson Mundy,	<i>Danville.</i>
Johanning, Paul Martin,	<i>Champaign.</i>
Jones, Harriet Willetha,	<i>Cairo.</i>
Jones, Isabel,	<i>Champaign.</i>
Jones, Wallace Franklin,	<i>Wyoming.</i>
Kaja, Josia Ellen,	<i>Filson.</i>
Karnopp, Esther May,	<i>Champaign.</i>
Kellum, Charles Samuel,	<i>Sycamore.</i>
Kelly, Frances Emily, A. B., 1901,	<i>St. David.</i>
Kent, Charles Wolcott,	<i>Kalamazoo, Mich.</i>
Kenyon, Eugene Crouse,	<i>Peoria.</i>
Kirkwood, Arthur William,	<i>Chicago.</i>
Klewer, Arthur Leonard,	<i>Chicago.</i>
Knapp, Noah,	<i>Hindsboro.</i>

Koch, Reuben Arles,	<i>Urbana.</i>
Koons, Guy Jink,	<i>Oakland.</i>
Launer, Stella May,	<i>Olney.</i>
Lease, Leonard John,	<i>Nokomis.</i>
Lohr, Virgil Clayborne,	<i>Mendon.</i>
Long, Hallie May,	<i>Atlanta.</i>
Longenbaugh, Joseph Edson,	<i>Moweaqua.</i>
McAlister, Paul Franklin,	<i>Champaign.</i>
Macalister, Robert Norman,	<i>Chicago.</i>
McClurg, Cora Ada,	<i>Urbana.</i>
McCormick, Evert Bruce,	<i>Champaign.</i>
McCue, Thomas E,	<i>Williamsville.</i>
McFarland, Will Johnson,	<i>Carrollton.</i>
McGinley, William,	<i>Moweaqua.</i>
McNamara, Carrie,	<i>Pierceton, Ind.</i>
Mann, Frances,	<i>Danville.</i>
Massey, Esther,	<i>Urbana.</i>
Mead, Clarence Eugene,	<i>Chillicothe.</i>
Meneely, Margaret,	<i>Champaign.</i>
Miller, Harry Crawford,	<i>Nokomis.</i>
Monroe, Will Seymour,	<i>Westfield, Mass.</i>
Murphy, James Russel,	<i>Elkhart.</i>
Nickell, Lloyd Francis,	<i>White Heath.</i>
Olson, Blenda,	<i>Urbana.</i>
Ordell, Franklin,	<i>Philo.</i>
Otto, William August,	<i>Melvin.</i>
Park, Retta Alline,	<i>Tower Hill.</i>
Parks, Mrs. Allie V.,	<i>Urbana.</i>
Parr, Elizabeth,	<i>Urbana.</i>
Parr, Harold Lucien,	<i>Urbana.</i>
Pearman, Arthur Columbia.	<i>Champaign.</i>
Pearson, Ida May,	<i>Pontiac.</i>
Peterson, Robert,	<i>Champaign.</i>
Pifer, Robert,	<i>Xenia.</i>
Piggott, Edward John, Jr.,	<i>Chicago.</i>
Pillsbury, Bertha Marion, A. M. ( <i>Rad-</i> <i>cliffe Coll.</i> ), 1898,	<i>Urbana.</i>
Pillsbury, Charles Stephen.	<i>Urbana.</i>
Poor, Henry Ives,	<i>Urbana.</i>
Poor, Robert Thurston,	<i>Urbana.</i>
Pope, Virginia Hamilton,	<i>Chicago.</i>

Powell, Jesse Roy,	<i>Streator.</i>
Price, Benjamin Montague May,	<i>Champaign.</i>
Putting, Oscar John,	<i>Springfield.</i>
Reddick, Susie Mosby,	<i>Champaign.</i>
Rhoades, Ida Ruth,	<i>Champaign.</i>
Rhoades, Rachel,	<i>Urbana.</i>
Rigdon, Ira,	<i>Ivesdale.</i>
Ripley, Edward Watson,	<i>Waggoner.</i>
Roberts, Ralph Ousley,	<i>Keokuk, Ia.</i>
Rose, Webster Barclay,	<i>Windsor.</i>
Ross, Edwin Albert,	<i>Addison, Mich.</i>
Royall, Charles Crecy,	<i>Clay Center, Kas</i>
Samson, Inez Rose,	<i>Urbana.</i>
Sater, Eunice Farrar,	<i>Atlanta.</i>
Schulte, Loretta,	<i>Hopedale.</i>
Shelby, Richards Edward,	<i>Momence.</i>
Shannon, Katharyn Robertine,	<i>Peoria.</i>
Shaw, Guy Loren,	<i>Summer Hill.</i>
Sloan, William Finlay,	<i>Bowen.</i>
Slocum, Mary Jane,	<i>Loda.</i>
Smith, Fred John, A. B., 1899.	<i>San Jose.</i>
Smith, Fleda Mary,	<i>Onarga.</i>
Smith, Florence Mary, A. B., 1899,	<i>Urbana.</i>
Smith, Louie Henry, M. S., 1897,	<i>Champaign.</i>
Spitler, John Clyde,	<i>Montrose.</i>
Steinwedell, Carl, B. S., 1903,	<i>Quincy.</i>
Stewart, Helen Amanda,	<i>Chicago.</i>
Stewart, John Archie,	<i>Mahomet.</i>
Talbot, Kenneth Hammet,	<i>Urbana.</i>
Talbot, Mildred Virginia,	<i>Urbana.</i>
Taylor, Dalla Alice,	<i>Champaign.</i>
Taylor, Elsie Mae,	<i>Champaign.</i>
Taylor, Harry,	<i>Harrisburg.</i>
Thornton, Ella,	<i>Sadorus.</i>
Thornton, Etta Pearl,	<i>Sadorus.</i>
Thornton, Sara,	<i>Sadorus.</i>
Toops, George Noble,	<i>Champaign.</i>
Trimble, Clara Eugenia,	<i>Fremont.</i>
Trimble, Mary Lillian,	<i>Champaign.</i>
Tull, Effie May, A. B., 1901.	<i>Farmer City.</i>
Turner, Dollie Irene,	<i>Long View.</i>

Tuthill, Lewis Butler,	<i>Anna.</i>
Van Meter, Helen Jane,	<i>El Paso.</i>
Vennum, Ernest Madge,	<i>Champaign.</i>
Vines, Edgar James,	<i>Hoopeston.</i>
Voss, Sophia May,	<i>Champaign.</i>
Wahl, Louie August, Jr.,	<i>Urbana.</i>
Western, Irving Mark, A. B., 1902,	<i>Dundee.</i>
Whelpley, Cecilia,	<i>Cobden.</i>
Whitehouse, Edith Ursula, A. B., 1902,	<i>Canton.</i>
Whitten, John Hamilton,	<i>Onarga.</i>
Wilder, Edson Alexander,	<i>Pontiac.</i>
Wiley, Frank Rudolph,	<i>Allenville.</i>
Wilson, John Guy,	<i>Gays.</i>
Wilt, Alva Lewis,	<i>Lake City.</i>
Winders, Bess May,	<i>Urbana.</i>
Winders, Frank Rae,	<i>Urbana.</i>
Wittlinger, Emma Marie,	<i>Decatur.</i>
Wood, Eunice Lillie,	<i>Gifford.</i>
Wood, Lewis Hungerford,	<i>Oak Park.</i>
Worthen, Edmund Louis,	<i>Warsaw.</i>
Wright, Josephine,	<i>Franklin.</i>
Zelenka, Joseph James,	<i>Savanna.</i>

## COLLEGE OF LAW

## Third Year

Briggle, Charles Guy,	<i>Rushville.</i>
Bundy, Raphael Parmer, A. B., 1902,	<i>Morristown, Ind.</i>
Burkhardt, John Herman,	<i>Sorento.</i>
Campbell, Ashton Ellsworth, A. B., 1901,	<i>Champaign.</i>
Casey, Charles Nicholas,	<i>Chicago.</i>
Clark, Lorin,	<i>Homcr.</i>
Coen, Homer Clarence, A. B., 1903,	<i>Olney.</i>
Colp, Leonard Allen,	<i>Marion.</i>
Cox, Manford E,	<i>Robinson.</i>
Dryer, John Lewis,	<i>Butler.</i>
Franklin, Dean,	<i>Macomb.</i>
Glick, Himan Richard,	<i>Chicago.</i>
Gray, Bartlett Stephen,	<i>Jacksonville.</i>
Hunt, George Warren,	<i>Granville.</i>
Jones, John William,	<i>Virden.</i>



Kaiser, William George,	<i>Highland.</i>
Kershaw, Le Roy,	<i>Elmwood.</i>
Ketchum, Daniel Clement, A. B., 1899,	<i>Byron, Neb.</i>
Kincaid, Stewart William, A. B., 1902,	<i>Heathsville.</i>
- Kyte, John Felix,	<i>Milan.</i>
Lindley, Walter Charles, A. B., 1901,	<i>Neoga.</i>
Lindsay, Frank Merrill,	<i>Decatur.</i>
McKinley, George Harvey, Jr.,	<i>Moline.</i>
Martin, James Walter, A. B., 1902,	<i>Wilmington.</i>
Medill, William Anthony,	<i>Milan.</i>
Morris, Charles Myers,	<i>Champaign.</i>
Parker, Calton William,	<i>Champaign.</i>
Perrigo, Lyle Donovan,	<i>Watseka.</i>
Poor, Edwin Lindsay, A. B., 1902,	<i>Streator.</i>
- Powers, Frank Marion,	<i>Streator.</i>
Prettyman, William Schenck,	<i>Pekin.</i>
Schumacher, Henry Theodore,	<i>La Rose.</i>
Tripp, Harold Frank,	<i>Quincy.</i>
Tuthill, Lewis Butler,	<i>Anna.</i>
Vickrage, Richard Percival,	<i>Pana.</i>
Western, Irving Mark, A. B., 1902,	<i>Dundee.</i>

#### Second Year

Allen, Lawrence Thompson,	<i>Hoopeston.</i>
Beckemeyer, Herman Jacob Christ,	<i>Carlyle.</i>
Boon, Harry Lehre, A. B., 1903,	<i>Urbana.</i>
- Clendenin, George Morey,	<i>Springfield.</i>
Danely, Alfred, Jr.,	<i>Urbana.</i>
Dewhirst, Harry Thomas,	<i>Olney.</i>
Doyle, Joseph Lemen,	<i>Champaign.</i>
Hall, Samuel Powell,	<i>La Salle.</i>
Hittson, Charles Henry,	<i>Neoga.</i>
Horr, Ralph Ashley,	<i>Gibson City.</i>
Hughes, Clarence Wilbert, A. B., 1900,	<i>Urbana.</i>
Jarrett, Thomas Lewis,	<i>Divernon.</i>
Marley, James Abraham,	<i>Paris.</i>
- Melin, Carl August,	<i>Springfield.</i>
Newman, Allan Andrew,	<i>Griggsville.</i>
Northcott, Nathaniel Dresser,	<i>Greenville.</i>
Penwell, Frederick Bowman,	<i>Danville.</i>
Pond, Henry Everett,	<i>Greenview.</i>

Reid, Robin Roy,	<i>Greenville.</i>
Robinson, Lee Edgar,	<i>Virginia.</i>
Rosebery, Clarence Judson,	<i>Peoria.</i>
Saunders, Thomas Earl,	<i>Ridgefarm.</i>
Scott, John T,	<i>La Moille.</i>
- Smith, Thomas Barrington Franklin,	<i>Murphysboro.</i>
Wagoner, Edward Owen,	<i>Champaign.</i>
Ward, Ulysses Garfield,	<i>Shelbyville.</i>
Wilson, John Guy,	<i>Gays.</i>

#### First Year

Anderson, John Edward,	<i>Paxton.</i>
Beveridge, Glen LeRoy,	<i>Decatur.</i>
Boyle, John Marshall,	<i>Roberts.</i>
Browder, Olin Lorraine,	<i>Mt. Vernon.</i>
Cairns, William Robert,	<i>Hebron.</i>
Cantlin, Jacob,	<i>Tampico.</i>
- Carey, William Joseph,	<i>Ivesdale.</i>
Caton, Charles Hull,	<i>Ottawa.</i>
Clark, Clinton Oliver,	<i>Le Roy.</i>
Eastman, Charles John,	<i>Winnetka.</i>
Emmerson, Raymond Jesse,	<i>Lincoln.</i>
Garnett, Elmer Logan,	<i>St. Marys.</i>
Gordon, Joseph Hinckley, A. M., 1901,	<i>Vandalia.</i>
Gore, Adolph,	<i>Marion.</i>
Hardy, Guy Byron,	<i>Galesburg.</i>
Healy, William James,	<i>Rochelle.</i>
- Hoff, Clare VanNess,	<i>Flora.</i>
Holman, Thomas Worcester,	<i>Chicago.</i>
Homrich, Grover Raymond,	<i>Galena.</i>
Horner, Harlan Hoyt, A. B., 1901,	<i>Urbana.</i>
Kimmel, Howard Elihu,	<i>Du Quoin.</i>
Knight, Earl John,	<i>Beardstown.</i>
Lucas, Allen Thurman,	<i>Bath.</i>
McClurg, Walter Sim,	<i>Urbana.</i>
McConaughy, Edward Leon,	<i>Rochelle.</i>
McCormick, Evert Bruce,	<i>Champaign.</i>
- McCoy, Charles Brooks,	<i>Marengo.</i>
McIntyre, Archibald Duck,	<i>Wilmington.</i>
Maxwell, Stoy Jackson,	<i>Robinson.</i>
Moore. Clyde,	<i>Westfield.</i>

Orndorff, Robert Brawner,	<i>Delavan.</i>
Outhouse, Fred Myrine,	<i>Lily Lake.</i>
Parker, Roy Sheldon, A. B., 1903.	<i>Toluca.</i>
Plummer, Chiles Preston,	<i>Biggsville.</i>
Preihs, John Walter,	<i>Sandoval.</i>
Price, Benjamin Montague May,	<i>Champaign.</i>
-Richards, Chester William.	<i>Urbana.</i>
Rodman, Robert,	<i>Hoopston.</i>
Royall, Charles Crecy,	<i>Clay Center, Kas.</i>
Sampson, William Edgar,	<i>Tice.</i>
Savage, Charles Chase,	<i>Virginia.</i>
Schulte, Charles Reinhart,	<i>Vandalia.</i>
Sheean, John Osburn,	<i>Galena.</i>
Skinner, Will Kenneth.	<i>Griggsville.</i>
Smith, Claude Earl,	<i>Flora.</i>
Staker, Ray Montgomery,	<i>Clayton.</i>
-Stelle, William Harrison,	<i>McLeansboro.</i>
Taylor, Thomas Varence, Jr.,	<i>Urbana.</i>
Walcott, Lloyd Vernon, A. B., 1903,	<i>Urbana.</i>
Welshimer, Robert Ross,	<i>Neoga.</i>
Williams, John Everett,	<i>Virden.</i>
Wood, Charles Harlington.	<i>Petersburg.</i>

## SPECIALS

Beach, Harold Cecil,	<i>Vandalia.</i>
Bogges, Leaton McCollester.	<i>Carrollton.</i>
Cameron, Glen James,	<i>Peoria.</i>
Cessna, Albert Bergess,	<i>Armstrong.</i>
Colby, George Bergen.	<i>Springfield.</i>
Colby, Roy Ray,	<i>Beloit, Wis.</i>
Crill, John Wilson,	<i>Rockford.</i>
Dailey, John Felix,	<i>Gifford.</i>
Ellis, Herbert Wesley,	<i>Bloomington.</i>
-Fletcher, Clarence Alfred,	<i>Pesotum.</i>
Graham, James John,	<i>Springfield.</i>
Gullett, Noah,	<i>Elizabethtown.</i>
Hannum, Philip Oliver,	<i>Carthage, Mo.</i>
Hardcastle, John Robert,	<i>Carrollton.</i>
Hickey, James Bernard,	<i>Urbana.</i>
Hillyer, George Clinton,	<i>Rushville.</i>
Kane, Fred Richard.	<i>Clarence, Ia.</i>

Keith, Cloyd Elias,	<i>Peoria.</i>
Kendall, John Samuel,	<i>Cobden.</i>
- Leaverton, Jae Ernest,	<i>Danville.</i>
Lilienstein, Arthur Webster,	<i>Petersburg.</i>
Martin, Frederick Sherman,	<i>Crawfordsville, Ind.</i>
Mercer, Rufus Seth,	<i>Centralia.</i>
Steidley, Arthur Jackson,	<i>Brunswick.</i>
Tracey, Andrew Edward,	<i>Toluca.</i>
Wright, Judson Mason,	<i>Danville.</i>
Wright, William Wilberforce, Jr.,	<i>Toulon.</i>

## COLLEGE OF MEDICINE

(COLLEGE OF PHYSICIANS AND SURGEONS, CHICAGO)

## SENIOR CLASS

Abbott, Wilson Ruffin, Ph. B. ( <i>Univ. of Toronto</i> ), 1894,	<i>Chicago.</i>
Alrutz, Louis Ferdinand,	<i>Chicago.</i>
Amerson, George C.,	<i>Austin.</i>
Amundson, Orrin C.,	<i>Estherville, Ia.</i>
Archer, Charles Andrew,	<i>Arkadelphia, Ark.</i>
Armstrong, Edward K.,	<i>Chicago.</i>
Armstrong, Jay Latrell,	<i>Urbana.</i>
Ash, Ray C.,	<i>Ashland, Ohio.</i>
Axe, Ross Harrison,	<i>Morocco, Ind.</i>
Ayres, Chester Arthur,	<i>Des Moines, Ia.</i>
Bahl, William Henry,	<i>Moline.</i>
Baldwin, Charles Frederick,	<i>Appleton, Wis.</i>
Balensiefer, Otto, Ph. G. ( <i>U. of I.</i> ), 1897,	<i>Joliet.</i>
Bankerd, Howard Roswell,	<i>Euphemia, Ohio.</i>
Barker, Clarence Dryden,	<i>Austin.</i>
Baumgart, Frederick August,	<i>Danville.</i>
Bean, James Robert,	<i>Washington, Ind.</i>
Beardsley, Carolyn Frances, Ph. G. ( <i>Philadelphia Coll. of Pharmacy</i> ), 1903,	<i>Chicago.</i>
Beattie, Helen Pearl,	<i>Chicago.</i>
Beck, Judah Bezal,	<i>Chicago.</i>
Berger, Joseph J.,	<i>Chicago.</i>

- Beveridge, George, A. B. (*Monmouth Coll.*), 1899, Victor.
- Biesenthal, Max, Chicago.
- Blackmer, Frank J., Albert Lea, Minn.
- Blackmer, Loren G., Albert Lea, Minn.
- Blumenthal, Robert Warren, Columbus, Wis.
- Blumstein, David Barnett, Butte, Mont.
- Boehmer, Olav, A.B. (*Univ. of Christiania, Norway*), 1888, Chicago.
- Bond, Xenia Ethel, A.M. (*Salem Coll.*), 1902, Aberdeen, W. Va.
- Bordwell, Frederick Alonzo, Stillwater, Minn.
- Borges, David Gladstone, Chicago.
- Brittin, Fred, Springfield.
- Burke, Richard Ames, Ishpeming, Mich.
- Busman, Herman, M.D. (*Harvey Medical Coll.*), 1903, Chicago.
- Campana, Eugene George, Butte, Mont.
- Capps, Henry Spencer, B.S., M.D. (*Univ. of Tenn.*), 1900; (*Medical Dept. Louisville Univ.*), 1903, Sao Paulo, Brazil.
- Carmack, Albert Orton, Camargo.
- Carr, William Henry, M.D. (*Chicago Homeopathic Coll.*), 1902, Bays, Ohio.
- Carson, Samuel King, M.E., M.D. (*Ohio State Univ.*), 1894; (*Bellevue Medical Coll.*), 1898, Riverton, Va.
- Case, Schuyler W., Cherry Valley.
- Cavanaugh, John Algernon, Chicago.
- Chaffee, Spencer Norman, B.Sc. (*Kansas Agricultural Coll.*), 1891, Clay Center, Kan.
- Coffin, Charles Albert, Adrian, Mich.
- Coggshall, Trovalo Chester, Champaign.
- Colliver, Samuel Nuel, West Grove, Ia.
- Cone, D. Edmund, Otsego, Ohio.
- Cook, Athol Llewellyn, Chicago.
- Cook, George Frederick, Chicago.
- Cooney, Edward William, Cascade, Wis.
- Costello, Thomas James, Greenville, Minn.
- Cowden, Newell Wilson, M.D. (*Ohio Medical Univ.*), 1897, Quaker City, Ohio.

- Crandall, Arthur Murphy, M.D. (*Chicago Homeopathic Coll.*), 1896, Fayette, Ia.
- Cremer, Peter Hubert, Cashton, Wis.
- Curney, Frank Richard, Chicago.
- Cushing, Guy Maynard, M.D. (*Hahnemann Medical Coll.*), 1900, Chicago.
- Cuttle, Frederick, Chicago.
- Dale, John R., Fremont, Ia.
- Danell, Karl August, A.B. (*Augustana Coll.*), 1900, Rock Island.
- David, Frank Elmer, D.D.S. (*Chicago Coll. Dental Surgery*), 1892, Chicago.
- Deacon, Francis, Chicago.
- De Cou, Susie Marion, Chicago.
- Dewitz, Otto John, Ph.G. (*U. of I.*), 1902, Chicago.
- Dickey, Samuel J., Hartstown, Pa.
- Dickinson, William Eugene, Montrose, S. Dak.
- Dielman, Franklin Commodore, Akron, Ind.
- Dillon, Bert John, Chicago.
- Doe, Albert Leroy, Lake City, Minn.
- Dougherty, John Philip, Omaha, Neb.
- Doyle, Frederick Murray, M.D. (*Jenner Medical Coll.*), 1903, Chicago.
- Dunn, Royal James, Emmett, Mich.
- Durkee, William Henry, M.D. (*Keokuk Medical Coll.*), 1897, Fulton.
- Eaton, Howard Demarest, A.B. (*Beloit Coll.*), 1900, Chihuahua, Mex.
- Eisendrath, Jacob Leonard, Chicago.
- Ericson, Charles E., Quincy.
- Ewan, Robert Thornton, Cuba.
- Faulkner, Louis, M.D. (*Chicago Homeopathic Coll.*), 1896, Austin.
- Feiker, Herman Albert, Sheboygan Falls, Wis.
- Ferry, Herbert Works, Geneseo.
- Foltz, J. Eliot, Little River, Kas.
- Gailey, William Watson, Jr., Ashland.
- Gambell, Francis Harvey, M.D. (*Keokuk Medical Coll.*), 1898, Thief River Falls, Minn.
- Gardner, Irwin Adelbert, Minneapolis, Minn.

- Gardner, Wilfred Henry, M.D. (*Chicago Homeopathic Coll.*), 1902, Bloomington.
- Geiger, Charles William, M.D. (*Chicago Homeopathic Coll.*), 1896, Gilman.
- Gesswein, Carl Albert, Hamilton, Ohio.
- Giesen, Charles William, Calmar, Ia.
- Gimson, Esther, Chicago.
- Gordon, Edmund Stanislaus, Chicago.
- Gotthelf, I. L., Denver, Colo.
- Gray, Charles Mickel, M.D. (*Maryland Medical Coll.*), 1902, Salem, N. J.
- Gray, Edwin Wilson, Evanston.
- Greaves, Joseph Ainsworth, Austin.
- Green, Samuel Charles, M.D. (*Flint Medical Coll.*), 1903, New Orleans, La.
- Gregg, Helen E., Chicago.
- Gudgel, Harry Baldwin, Chicago.
- Gunderson, Cornelius, Chicago.
- Haberman, Emil, Alpha, So. Dak.
- Haecker, Theodore Clarence, Hampton, Ia.
- Heassly, Stephen B., Herbert, Wis.
- Hagans, Grace C. H. Frith, Chicago.
- Hallinan, Edward Leo, Clinton, Ia.
- Halverson, Henry Ludwig, Cashton, Wis.
- Hammel, Seth A., Topeka, Kas.
- Harman, Ira Chase, Milford.
- Harnett, Arthur Lee, Chicago.
- Harrington, William Emery, Owatonna, Minn.
- Harris, Wayne Adelbert, Centerville, Ia.
- Haslit, Percy Parker, Dolson.
- Hatfield, Chalmer Nathan, Fostoria, Ohio.
- Hattery, Hillis Hall, Waterloo, Ia.
- Hawkins, Andrew Peter, Spring Valley, Minn.
- Heaton, Edgar D., Centerville, Ia.
- Heffelfinger, Miles Akin, Grundy Center, Ia.
- Heimark, Andrew John, Clarkfield, Minn.
- Heinen, Aloys, Chicago.
- Henning, Albert Francis, Newell, Ia.
- Herrmann, Alfred August, Chicago.
- Hinman, Willis Townsend, Ph.G. (*Northwestern Univ.*), 1895, Cambridge.

- Hinton, Ralph Thompson,  
 Hohly, George Paul,  
 Holmberg, LeRoy John,  
 Horstmann, Frank Marion,  
 Hotchkiss, Walter Booth,  
 Houk, William Frederick,  
 Hundley, James Burnett,  
 Hutchison, Owen Ghormley,  
 Ingham, George Meek,  
 Jarvis, Edward Taylor,  
 Jones, Charles Everett, Ph.G. (*U. of I.*),  
 1898,  
 Joyce, George Timothy,  
 Kaemerling, Theodore Simon,  
 Keefe, Frank Miles,  
 Ketchum, Ellen Pauline,  
 King, Charles Joseph,  
 Knipe, James Bolton, Ph.G. (*Drake Uni-*  
*versity*), 1900,  
 Koons, Susan Lilian,  
 Kruk, George Joseph,  
 Landau, Benjamin Gabriel,  
 Landmann, Gustave Adolph,  
 Layman, Daniel Winfield,  
 Leeds, Arthur Lell, B.S., M.D. (*Lafayette Coll.*), 1893; (*Hahnemann Medical Coll.*), 1902,  
 LeMaster, Benjamin E.,  
 Lipman, William Henry,  
 Longstreet, Martha L.,  
 Loupee, Sherman L.,  
 Lucas, Harold Roy,  
 Luesing, Albert, M.D. (*Harvey Medical Coll.*), 1903,  
 Luke, Edward,  
 McCracken, Robert Edward, Ph.G. (*Chicago Coll. of Pharmacy*), 1893,  
 McEachern, Walter Allan,  
 McGoey, Joseph Aloysius, Ph.G., M.D. (*U. of I.*), 1897; (*Harvey Medical Coll.*), 1903,  
 Quincy.  
 Toledo, Ohio.  
 Cashton, Wis.  
 Barron, Wis.  
 Riverside.  
 Crown Point, Ind.  
 Rome, Ky.  
 Clarence.  
 Wilton, Ia.  
 Plymouth.  
 Oak Park.  
 Stewartville, Mo.  
 Chicago.  
 Clinton, Ia.  
 La Prairie.  
 George, Ia.  
 Parkersburg, Ia.  
 Harveyville, Pa.  
 Chicago.  
 Chicago.  
 Scotland, S. D.  
 Des Moines, Ia.  
 Michigan City, Ind.  
 Bushnell.  
 Chicago.  
 Bay City, Mich.  
 Williamsville, Mich.  
 Lyons, Kas.  
 LaGrange.  
 Danville.  
 Central City, Neb.  
 Sandstone, Minn.  
 Chicago.



- McWhorter, Port,  
 Martin, Manfred Robert,  
 Marvel, Luther Martin,  
 Matter, Orson Eugene, M.D. (*Chicago Homeopathic Coll.*), 1896,  
 Mattison, Charles Wesley, B.S. (*Penn Coll.*), 1900,  
 Mayer, Edward Anton, Ph.G. (*Univ. of Wisconsin*), 1894,  
 Mead, Nehemiah Paul, Ph.G. (*Iowa State Univ.*), 1897,  
 Merritt, Frank W.,  
 Midgley, Arthur Ellison, M.D. (*Chicago Homeopathic Coll.*), 1903,  
 Miller, Anson Torence,  
 Miller, Hanna,  
 Monahan, James John,  
 Montgomery, James Redman,  
 Moore, Clara,  
 Morden, Roy Robert,  
 Morris, Robert Lyman,  
 Morrison, John Wesley,  
 Morton, David Holmes,  
 Murphey, Veda Chiperfield,  
 Murphy, John Campbell,  
 Nelson, Henry Eugene,  
 Nelson, John Percy,  
 Nelson, Michael, M.D. (*Harvey Medical Coll.*), 1903,  
 Newcomb, Cyrus Forsyth,  
 Nuckolls, William Lorenza,  
 Oake, William Thomas, Ph.G. (*Northwestern Univ.*), 1892,  
 Oakes, Robert Allan,  
 Ofstad, Arnt E.,  
 Osborn, William Shelton,  
 Parker, Don L.,  
 Pickett, Charles Henry,  
 Plank, Tilman Howard, M.D. (*Chicago Homeopathic Coll.*), 1896,  
 Pollock, Edith Cory,  
 Miller, S. D.  
 Weldon.  
 Waynesville.  
 DeKalb.  
 Oskaloosa, Ia.  
 Kaukauna, Wis.  
 Akron, Ia.  
 Centerville, Ia.  
 Chicago.  
 Andrew, Ia.  
 Chicago.  
 Tomah, Wis.  
 Cynthiana, Ind.  
 Kewaunee, Wis.  
 Jefferson, Ia.  
 Maroa.  
 Grand Junction, Ia.  
 Elmwood.  
 Cuba.  
 Long Grove, Ia.  
 Decorah, Ia.  
 Canton.  
 Chicago.  
 Champaign.  
 San Francisco, Cal.  
 Chicago.  
 Ft. Wayne, Ind.  
 Minneapolis, Minn.  
 Rippey, Ia.  
 Shelbyville.  
 Chicago.  
 Chicago.  
 Chicago.

Price, Alfred Stirgus,	<i>Des Moines, Ia.</i>
Reitman, Benjamin Leopold,	<i>Chicago.</i>
Renberg, Felix Herman,	<i>Chicago.</i>
Replogle, Josef Francis,	<i>Pontiac.</i>
Richards, Henry,	<i>Chicago.</i>
Ridley, George Vincent,	<i>Chicago.</i>
Robinson, John Wirt, B.S. ( <i>College of Mont.</i> ), 1899,	<i>Chicago.</i>
Rubel, Harry Francis,	<i>Le Mars, Ia.</i>
Russell, Samuel Joseph, M.D. ( <i>Harvey Medical Coll.</i> ), 1902,	<i>Chicago.</i>
Schallert, Paul Otto,	<i>Johnson's Creek, Wis.</i>
Schelde, Edwin Martin,	<i>Kenyon, Minn.</i>
Scholten, Dirk J., B.S. ( <i>Iowa State Coll.</i> ), 1900,	<i>Alton, Ia.</i>
Schnetzky, Oscar Paul, M.D. ( <i>Milwaukee Medical Coll.</i> ), 1903,	<i>Milwaukee, Wis.</i>
Schroeter, Oscar Victor,	<i>Chicago.</i>
Schultz, Louis, D.D.S. ( <i>Chicago Coll. of Dental Surgery</i> ), 1901,	<i>Chicago.</i>
Sexton, Ira J.,	<i>Chicago.</i>
Seymour, Ernest de Lacey,	<i>Dwight.</i>
Simpson, William Likely,	<i>Diagonal, Ia.</i>
Smith, Clyde Leroy,	<i>Leipsic, Ohio.</i>
Smith, Edward Vincent,	<i>Chicago.</i>
Smith, James Lawrence,	<i>Chicago.</i>
Snook, John, M.D. ( <i>California Medical Coll.</i> ), 1896,	<i>Bakersfield, Cal.</i>
Snow, Corydon Goodrich,	<i>Princeton.</i>
Spencer, William Henry,	<i>Vinton, Ia.</i>
Starck, Carl Adam,	<i>Palatine.</i>
States, Gilbert Warren,	<i>Boulder, Colo.</i>
Stevens, Robert E.,	<i>Rochelle.</i>
Stocker, Alfred, M.D. ( <i>Barnes Medical Coll.</i> ), 1900,	<i>Rock Island.</i>
Stuenkel, Arthur John,	<i>Arlington Heights.</i>
Swab, Charles Casper,	<i>Cedar Rapids, Ia.</i>
Sweet, Hartford, A.B. ( <i>Univ. of Oregon</i> ), 1901,	<i>Mt. Etna, Ia.</i>
Swantek, Stephen Damian, M.D. ( <i>Grand Rapids Medical Coll.</i> ), 1902,	<i>Grand Rapids, Mich.</i>

- Swift, Frederick James, *Maquoketa, Ia.*  
 Tanquary, Flora Matina, *Albion.*  
 Taylor, Frank Bashford, *Madison, Wis.*  
 Teigen, Margaret, *Fargo, N. Dak.*  
 Thomas, Edna Margaret, *Monticello, Ia.*  
 Thomas, George Henry, *Chicago.*  
 Thorpe, John Norton, *Chicago.*  
 Twohig, David James, *Armstrong, Wis.*  
 Updegraff, Chester Deric, M.D. (*Coll. of  
 P. and S., Kansas City, Mo.*), 1903, *Medicine Lodge, Kas.*  
 Vopata, William John, *Chicago.*  
 Wall, Clarence Heathcote, *Chicago.*  
 Walter, Frederick Jerome, M.D. (*Chicago  
 Homeopathic Coll.*), 1899, *Ohio.*  
 Wergen, William Frederick August, *Ottawa.*  
 Whipple, Walter Burley, *Chicago.*  
 White, Harry Oscar, M.D. (*Harvey Medi-  
 cal Coll.*), 1896, *Chicago.*  
 Whitham, Gratian Philip, *Toledo, Ohio.*  
 Wilkinson, Carl Hixson, *LaFayette, Ind.*  
 Wilmot, Clauson Morrill, *Camp Grove.*  
 Winbigler, Bryce Rex, *Gerlaw.*  
 Windmueller, C. R. A., *Chicago.*  
 Wing, Florence Anna, *Chicago.*  
 Wistein, Rosina Rehor, *Chicago.*  
 Wolfrum, Otto Gustav, D.D.S. (*North-  
 western Dental Coll.*), 1897, *Chicago.*  
 Woltmann, Henry Clay, A.B., M.D. (*Iowa  
 Wesleyan Univ.*), 1895; (*Hahnemann  
 Medical Coll.*), 1903, *Chicago.*  
 Wood, Frank Leighton, *Superior, Wis.*  
 Wood, Orlando Garfield, *Chelsea, Mich.*  
 Woods, William Peary, A.B. (*Amity  
 Coll.*), 1899, *Clarinda, Ia.*  
 Yates, Charles Everett, *Narka, Kas.*  
 Young, William Hamilton, B.S. (*Univ.  
 of North Dakota*), 1899, *Chicago.*

## JUNIOR CLASS

Alt, George Ludwig,	Chicago.
Andrews, Malcolm Percy,	Lebanon.
Antoine, Francis John,	Lake Church, Wis.
Ayers, Daniel Francis,	Chicago Heights.
Bagley, Henry Patterson,	Chicago.
Baker, Nellie M.,	Onarga.
Ballou, Jesse,	Pleasant View.
Ballou, Justin Guy,	Stamford, Ky.
Banks, Jesse Thomas,	Connersville, Ind.
Barr, William Hunter,	Carroll, Ia.
Bartlett, Clayton Elmer,	St. Paul, Minn.
Beck, Fred Oswald, Ph.G. ( <i>Northwestern Univ.</i> ), 1899,	Dubuque, Ia.
Benker, Oscar Henry,	Wichita Falls, Kas.
Bowen, Fred Phelps,	Richland Center, Wis.
Brixey, James Carse,	Chicago.
Brown, Frederick,	Coal City.
Browne, John Payne,	Chicago.
Buchan, Edward James,	Racine, Wis.
Buckley, James Edward, D.D.S., Ph.G. ( <i>Chicago Coll. Dental Surgery</i> ), 1903; ( <i>Philadelphia Coll. of Pharmacy</i> ), 1886,	Chicago.
Burgess, Albert Ross,	Belle Plaine, Kas.
Burnside, Lyman Ambrose,	Dolson.
Cady, Matthew Philander,	Birnamwood, Wis.
Cameron, Joseph Robert,	Beaver City, Neb.
Cannon, William Patrick,	Chicago.
Caron, Walter, Ph.G. ( <i>U. of I.</i> ), 1900,	Chicago.
Christenson, John August, B.S. ( <i>Augustana Coll.</i> ); 1900,	Jamestown, N. Y.
Clagett, Arthur Neville, B.D. ( <i>Seabury Divinity School</i> ), 1899,	Newport News, Va.
Clark, Charles Cornelius,	Neoga.
Cole, Daniel Thomas,	Rantoul.
Conklin, Robert Earle,	Alma, Neb.
Crawshaw, John Allen,	Carbondale.
Crouch, James Adam,	Belle Prairie.
Cuthbert, Fred Sheets,	Hollandsburg, Ind.
Dando, George H.,	Orland, Ind.
Davey, John Michael, Jr.,	Ponca, Neb.

Davies, Harriett, A.B. ( <i>Ripon Coll.</i> ), 1901,	<i>Eldorado, Wis.</i>
Davies, Bertram Charles,	<i>Downer's Grove.</i>
Davis, Floren Fred,	<i>Jeffersonville.</i>
Davis, Russell,	<i>Hanna, Ind.</i>
Dawes, Leonard Pratt,	<i>Monroe Center, Wis.</i>
Dean, George Almarion,	<i>Chicago.</i>
Dodge, William Edward,	<i>New York, N. Y.</i>
Dostal, Ferdinand Edward,	<i>Chicago.</i>
Dowd, James Edward,	<i>Rushville, Neb.</i>
Downs, Jirah Marston,	<i>Waterville, Ohio.</i>
Dunshee, Vernon Amasa,	<i>Mt. Carroll.</i>
Eagan, John Bernard,	<i>Muscoda, Wis.</i>
Edwards, James Edward, A.B. ( <i>Wofford Coll.</i> ), 1900,	<i>Abbeville, S. C.</i>
Egan, John Joseph,	<i>Chicago.</i>
Egan, Thomas Sylvester,	<i>Lawler, Ia.</i>
Egan, William Joseph,	<i>Chicago.</i>
Fara, Frank John,	<i>Chicago.</i>
Farquhar, David Clifford,	<i>West Brownsville, Pa.</i>
Fastabend, Frank Bernhardt,	<i>Chicago.</i>
Fitzgerald, David Henry,	<i>Fond du Lac, Wis.</i>
Fletcher, Archibald Gray,	<i>Orchard, Neb.</i>
Folckemer, Harry Rox,	<i>Camp Point.</i>
Forkin, George Edward,	<i>Chilton, Wis.</i>
Gale, William Van Dorn, Ph.G. ( <i>Univ. of Buffalo</i> ), 1900,	<i>Lodi, N. Y.</i>
Ganoe, Charles Virgil,	<i>Ogden, Ia.</i>
Gernsey, Morrith Nelson,	<i>Harvey.</i>
George, William Adolph, Ph.G., B.S. ( <i>So. Dakota Agricultural Coll.</i> ), 1900-1902,	<i>Gettysburg, S. Dak.</i>
Goetzinger, Charles Frederick,	<i>Fergus Falls, Minn.</i>
Gordon, J. Matt,	<i>Bolivar, Mo.</i>
Gore, Charles Philip,	<i>Lawrenceville.</i>
Grant, Oscar Emanuel,	<i>New Windsor.</i>
Gray, William Karg,	<i>Chicago.</i>
Greenwald, Charles Edward,	<i>Whiting, Ind.</i>
Grout, Benjamin Chase,	<i>Chicago.</i>
Grove, Martin Melvin,	<i>Plainview, Minn.</i>
Hagans, Frank M.,	<i>Browning.</i>
Harner, Marshall William,	<i>Clay Center, Kas.</i>
Harner, Romeo Catlin,	<i>Green, Kas.</i>

- Hastings, Patrick Henry, Ph.G. (*Illinois Medical Coll.*), 1902, Bailey, Ia.
- Hattendorf, Jessie Henrietta, Waterloo, Ia.
- Hayton, Arthur Russell, Battle Creek, Mich.
- Hiett, Alva, Monmouth.
- Higgins, Samuel George, B.S. (*Univ. of Wisconsin*), 1902, Sault Ste. Marie, Can.
- Hinds, Mrs. Anna Mary, B.L. (*Knorr Coll.*), 1902, Berwyn.
- Hoag, Harry James, So. Milwaukee, Wis.
- Hoag, Robert Baldwin, Danville, Cal.
- Hoeve, Heikobus Johannes Hubertus, Chicago.
- Hopkins, Fred Grant, Chicago.
- Hostetter, Abram, Mt. Carroll.
- Horan, George F., Chicago.
- Jacks, Ruffin Barrow, Nero, La.
- Jefferson, Harry Asbury, Menominee, Wis.
- Jennings, Arthur G., New London, Wis.
- Jerger, Joseph Ambrosia, Sydney, Australia.
- Johnson, Ellen Marie, Chicago.
- Johnson, Harold Herbert, Wilton Junction, Ia.
- Johnson, Henrietta Amanda, Blair, Wis.
- Jones, Fred Wade, Chicago.
- Kearney, James Francis, Chicago.
- Kelly, Charles Dilworth, Chicago.
- Kelso, Curtis Elmer, Thomasboro.
- Keyes, Harley Emmett, Chicago.
- Kubricht, Theophilus, Chicago.
- Kuhn, Leroy Phillip, Chicago.
- Lawyer, William Martin, Ellendale, N. Dak.
- Learned, Clare Sumner, Racine, Wis.
- Levitin, Emil Zola, Chicago.
- Livingston, Joseph William, Pelican Rapids, Minn.
- Lundwall, Lawrence Svante Bernhard, B.S. (*Augustana Coll.*), 1901, Brockton, Mass.
- MacArthur, Charles, Hartley, Canada.
- McConnell, Charles Asa, B.S. (*National Normal Univ.*), 1892, Hot Springs, Ark.
- Magahy, Charles Alford, Chicago.
- Maher, Thomas Francis, Chicago.
- Meeks, Clark Champlin, Pontiac.

- Melvin, Wheeler Hayes, *Avalanche, Wis.*  
 Merritt, Charles Walter, *Chicago.*  
 Mikkelsen, Agnes, *Chicago.*  
 Miller, Charles Archer, A.B. (*Ind. State Univ.*), 1896, *Princeton, Ind.*  
 Miller, Donald Campbell, *Viroqua, Wis.*  
 Miller, Eben Perry Sturges, A.B. (*Hillsdale College*), 1894, *Pentwater, Mich.*  
 Miller, John Frederick, *Olivet, S. Dak.*  
 Montgomery, William, *Eau Claire, Wis.*  
 Moore, George Wilford, *Kewaunee, Wis.*  
 Morden, Leone L., *Jefferson, Ia.*  
 Morrow, Nelson Case, *Chicago.*  
 Mount, William Chalmers, *Darlington, Ind.*  
 Murphy, John Patrick, *Chicago.*  
 Myers, Louis Winfield, *Argenta.*  
 Norton, Ralph Waldo, *Farmington.*  
 O'Callaghan, Charles Daniel, *Chicago.*  
 Okerstrom, Albert. B.S. (*Augustana Coll.*), 1898, *Anoka, Minn.*  
 Olsson, Olof, A.B. (*Augustana Coll.*), 1900, *Grand Rapids, Mich.*  
 O'Neill, Frank William, A.B. (*Univ. of Minnesota*), 1902, *Graceville, Minn.*  
 Overholt, Roscoe Earle, *Columbus Junction, Ia.*  
 Palm, Carl August, *Chicago.*  
 Palmer, Thomas Jefferson, *Keokuk, Ia.*  
 Parke, George, *Richland Center, Wis.*  
 Parmalee, Olin Earl, *Petersburg, Mich.*  
 Peisch, Benjamin Frederick, *Burlington, Ia.*  
 Perry, Benjamin, Ph.G. (*U. of I.*), 1901, *Melvin.*  
 Peterson, Henry Christian, *Bethany, Cal.*  
 Peterson, Enoch Fred, Ph.G. (*U. of I.*), 1901, *Chicago.*  
 Pierce, Joseph Cooper, *Ridgefarm.*  
 Pirosh, Sigmar, *Chicago.*  
 Porteus, Roy Whittier, *West La Fayette, Ohio.*  
 Powell, Clarence Day, *Chicago.*  
 Powers, George J., *Streator.*  
 Ranseen, Carl Mathew, B.S. (*Univ. of Wisconsin*), 1901, *Chicago.*

Raynor, Melbourne,	<i>Rose Hall, Canada.</i>
Reiss, Oscar,	<i>Chicago.</i>
Riegel, Harrison Christian,	<i>Lightsville, Ohio.</i>
Roach, Harry Andrew,	<i>Heart Prairie, Wis.</i>
Rodemeyer, Frederick Henry,	<i>Latimer, Ia.</i>
Ross, John Markley,	<i>Richland Center, Wis.</i>
Roth, Albert Alexander,	<i>Chicago.</i>
Rudnick, Frederick, Ph.G. ( <i>Chicago Coll.</i> <i>of Pharmacy</i> ), 1893,	<i>Chicago.</i>
Sarhein, Robert Karlson,	<i>Minneapolis, Minn.</i>
Savage, Robert Garfield,	<i>Chicago.</i>
Schell, Charles Peter,	<i>Chicago.</i>
Schoen, Charles Mathias, A.B. ( <i>Mar-</i> <i>quette Coll.</i> ), 1890,	<i>Milwaukee, Wis.</i>
Schmidt, Charles Henry, Ph.G. ( <i>U. of I.</i> ), 1902,	<i>Chicago.</i>
Schullian, Orie Frank,	<i>Quincy.</i>
Sears, Armina Belle,	<i>Kansas City, Mo.</i>
Socket, William Valentine,	<i>Wheaton.</i>
Shimer, Frank Elmer,	<i>La Porte City, Ia.</i>
Sintzel, Rudolph Virchow,	<i>Niles Center.</i>
Slocumb, Hugh Henry,	<i>Winona, Minn.</i>
Slocumb, Maude Stephens,	<i>Keithsburg.</i>
Stangland, Arthur K.,	<i>Chicago.</i>
Stearns, Lester Miles,	<i>Oak Park.</i>
Steffen, Richard Charles,	<i>Chicago.</i>
Stevens, Roy George,	<i>Springfield, S. Dak.</i>
Stough, Raymond Ward,	<i>Bryan, Ohio.</i>
Strayer, Lucile Irene,	<i>Chicago.</i>
Sturgeon, Clarence Everett,	<i>Clarion, Ia.</i>
Swearingen, Guy Howard,	<i>Sidney.</i>
Tannus, Tannus Ferris,	<i>Bloomington.</i>
Tomkinson, William Scott,	<i>Kalamazoo, Mich.</i>
Tupper, Eugene Ellsworth,	<i>Chicago.</i>
Vanatta, Fay McVey,	<i>Randolph, Ia.</i>
Van Kirk, George Hiram,	<i>Leiters, Ind.</i>
Wagner, James Alois,	<i>Ossian, Ia.</i>
Wallace, Eugene,	<i>Wichita, Kas.</i>
Walsh, Joseph Mark,	<i>Yankton, S. Dak.</i>
Weir, Silas Wilkin,	<i>West Union.</i>
Wentz, Herbert Bertram,	<i>Chicago.</i>



Werner, Charles Frank,	<i>Fond du Lac, Wis.</i>
Weyer, Ross Steele,	<i>Chicago.</i>
Willhite, Frank Vanatta,	<i>Grant City, Mo.</i>
Willits, Ira Raymond,	<i>Keithsburg.</i>
Willmering, Sena,	<i>Columbus City, Ia.</i>
Winsett, Clifford Vane, Ph.B., Ph.G. ( <i>Grinnell Coll.</i> ), 1900; ( <i>Drake Univ.</i> ), 1901,	<i>Waterloo, Ia.</i>
Wissig, Simon Leo,	<i>Chicago.</i>
Woltmann, Frederick,	<i>Neeper, Mo.</i>
Woolston, Wesley John,	<i>Geneva.</i>

## SOPHOMORE CLASS

Anderson, Alma S.,	<i>Seattle, Wash.</i>
Bauer, Frederick,	<i>Center Point, Ia.</i>
Beeson, Benjamin Barker,	<i>Chicago.</i>
Berglund, Simon, B.S. ( <i>Augustana Coll.</i> ), 1901,	<i>Marinette, Wis.</i>
Bird, James Bowdon,	<i>Mason City.</i>
Boal, Daniel,	<i>Chicago.</i>
Bowman, William Townzen, Ph.G. ( <i>U. of</i> <i>I.</i> ), 1898,	<i>Mosweaqua.</i>
Bowsher, Frank Llewellyn,	<i>Greenville, Ohio.</i>
Brown, Harry Stafford,	<i>Nobleville, Ind.</i>
Clark, Edward Harry,	<i>Vinton, Ia.</i>
Cohen, Hyman,	<i>Chicago.</i>
Cremin, William Joseph,	<i>New York, N. Y.</i>
Croft, Albert Joseph,	<i>Chicago.</i>
Cronin, John James,	<i>Chicago.</i>
Cutler, Edwin,	<i>Princeton, Idaho.</i>
Danik, Eric Jacob,	<i>Chicago.</i>
Davis, Huldah,	<i>Essex, Ia.</i>
Davis, Robert Anthony, Ph.C. ( <i>Wood-</i> <i>stock, Ont.</i> ), 1891,	<i>Chicago.</i>
Dewey, Fred Girard,	<i>Moville, Ia.</i>
Duguid, James Henry,	<i>Ray, Ind.</i>
Dvorak, Georgiana Margaret,	<i>Chicago.</i>
Edgcomb, John Harold,	<i>Utica.</i>
Edison, Samuel Martin,	<i>Chicago.</i>
Egan, James John,	<i>Chicago.</i>
Fairhall, Leo Victor,	<i>Danville.</i>

Fast, Harry DeWitt,	<i>Princeton.</i>
Fenton, Thomas Justine,	<i>Ames, Ia.</i>
Finney, Ernest Orion,	<i>Rankin.</i>
Flannery, Robert Emmet,	<i>Lone Rock, Wis.</i>
Fischer, Albert Michael,	<i>Jefferson, Wis.</i>
Fomon, Samuel,	<i>Chicago.</i>
Ford, Ernest Jason,	<i>Prairie Center.</i>
Furstman, Jacob Michael,	<i>Chicago.</i>
Garstang, Ira Clifford,	<i>Chicago.</i>
Glenn, Edward Andrew,	<i>Chicago.</i>
Grable, Harry George,	<i>Logansport, Ind.</i>
Haeffner, Albert William,	<i>Chicago.</i>
Harris, Chester Ellis, A.M. ( <i>U. of I.</i> ),	
1903,	<i>Ogden.</i>
Harris, Louis Julius,	<i>Chicago.</i>
Harris, Ray Rhinaldo,	<i>Champaign.</i>
Harwood, Dorsey Alford,	<i>Alcona.</i>
Hatfield, Lena C., A.B. ( <i>Simpson Coll.</i> ),	
1895,	<i>Chicago.</i>
Hayward, Martha,	<i>Aurora.</i>
Heffron, Edward Lancaster,	<i>Geneva, N. Y.</i>
Hench, John Madison,	<i>Watsonville, Cal.</i>
Higginbotham, Thomas Lafayette,	<i>Creelsboro, Ky.</i>
Holmes, Ralph Randall, A.M. ( <i>Illinois</i>	
<i>Wesleyan Univ.</i> ), 1898,	<i>Bloomington.</i>
Hoover, Enos M.,	<i>Nappance, Ind.</i>
Horn, Emmett Eugene,	<i>Moulton, Ia.</i>
Howard, Charles Earl,	<i>Clermont, Ind.</i>
Jackson, Charles Augustus,	<i>Houston, Tex.</i>
Jewell, Earl Bowen,	<i>Danville.</i>
Keller, Sam,	<i>Sioux Falls, S. Dak.</i>
Kennelley, Frank Clair,	<i>Easton.</i>
Knappenberger, T. Gaillard,	<i>Macomb.</i>
Knowles, Edwin Winslow,	<i>Chicago.</i>
Kraus, Harry Adam,	<i>Chicago.</i>
Krueger, Arthur Henry Richard,	<i>Chicago.</i>
Lattimore, Joseph Carpenter,	<i>Tallston, N. C.</i>
Lawson, John Fonrose,	<i>Neoga.</i>
Leuthold, Samuel Alfred,	<i>Bucyrus, Ohio.</i>
Lofgren, David Edward, A.B. ( <i>Augustana</i>	
<i>Coll.</i> ), 1903,	<i>Dayton, Ia.</i>

Loofbourrow, Elias Homer,	<i>New Madison, Ohio.</i>
Luken, Martin Girard,	<i>Chicago.</i>
Lutyens, George Benjamin,	<i>Rochester.</i>
McLane, George Albert,	<i>Whitewater, Wis.</i>
McMurray, Ray James,	<i>Francisville, Ind.</i>
Miller, George Edwards,	<i>Ireton, Ia.</i>
Miller, Leo Cassius,	<i>Princeville.</i>
Miller, Noble William,	<i>Chicago.</i>
Moldenhauer, William John,	<i>Des Plaines.</i>
Moore, Ralph Vernon,	<i>Chicago.</i>
Morrow, Louise,	<i>Rockford.</i>
Movius, Alfred Henry,	<i>Lidgerwood, N. Dak.</i>
Nathanson, Charlotte Alden,	<i>Chicago.</i>
Nathanson, Joseph Lawrence,	<i>Chicago.</i>
Nebeker, Elbert Ferguson, Ph.G. ( <i>Chicago</i> <i>Coll. of Pharmacy</i> ), 1895,	<i>Chicago.</i>
Newell, Floyd William,	<i>Ottumwa, Ia.</i>
Northcross, David Caneen,	<i>Flint, Ohio.</i>
O'Leary, Thomas J.,	<i>Wabasha, Minn.</i>
Olson, Alfred Louis,	<i>Stoughton, Wis.</i>
O'Neil, John Patrick,	<i>Chicago.</i>
O'Neil, William Edward,	<i>Chicago.</i>
Osborn, George Robert,	<i>Hanna, Ind.</i>
Oughton, James Henry,	<i>Dwight.</i>
Park, Simon Joseph,	<i>Chicago.</i>
Parsons, Irving Wheeler,	<i>Chicago.</i>
Pearce, May Osborne,	<i>Duluth, Minn.</i>
Peterson, Martin David Ephraim,	<i>Paxton.</i>
Pettit, Herbert Leroy,	<i>Chicago.</i>
Pillinger, Herbert Henry,	<i>Chicago.</i>
Pitz, Robert Henry,	<i>Chicago.</i>
Pollock, Lewis John,	<i>Chicago.</i>
Provine, George Sumner,	<i>Macomb.</i>
Pryor, Ray Ethelbert, A.B. ( <i>Ouachita</i> <i>Coll.</i> ), 1903,	<i>Camden, Ark.</i>
Rach, Emil Arthur,	<i>Mitchell, Wis.</i>
Rego, Alfred d'Almeida,	<i>St. Michael, Portugal.</i>
Rice, Merton Henry,	<i>Barron, Wis.</i>
Rizer, Robert Inskeep,	<i>Clinton, Ia.</i>
Robin, Samuel M.,	<i>Chicago.</i>
Rose, Joseph F.,	<i>Green Bay, Wis.</i>

Ross, George William,	<i>Chicago.</i>
Ross, Robert Malcolm,	<i>Chicago.</i>
Rost, John Frederic Wilken,	<i>Petersburg.</i>
Salomon, Richard Sigmund,	<i>Chicago.</i>
Schmidt, Lawrence Maurice,	<i>Belvidere.</i>
Schmuck, Alfred M.,	<i>Chicago.</i>
Schwartz, Mary,	<i>Chicago.</i>
Schwartz, Reinhard Frederick,	<i>Lyons, Ia.</i>
Seaman, Roy Clarence,	<i>Cherokee, Ia.</i>
Sharrer, Frank Leslie,	<i>Francisville, Ind.</i>
Sheridan, Francis,	<i>Chicago.</i>
Siders, W. Bert,	<i>New Carlisle, Ind.</i>
Smith, Charles Kenneth,	<i>Kankakee.</i>
Smith, Harvey LeRoy,	<i>Sadorus.</i>
Smith, Lloyd Fisher,	<i>Chicago.</i>
Smith, William Lester,	<i>Toledo.</i>
Sorenson, Alfred Renhart, A.B. ( <i>Luther Coll.</i> ), 1902,	<i>Harmony, Minn.</i>
Standard, Alfons Perry,	<i>Lewiston.</i>
Stevens, Fred Warner,	<i>Chicago.</i>
Stone, French Franklin,	<i>Chicago.</i>
Stull, Katherine,	<i>Auburn, Neb.</i>
Sunderland, William Eben,	<i>Cavette, Ohio.</i>
Swindle, Robert Norris,	<i>Ryan, Ia.</i>
Theobald, Frank John,	<i>Niles Center.</i>
Thomas, Harry Veder,	<i>Chillicothe.</i>
Thompson, Orris Martin,	<i>Ellsworth.</i>
Tillotson, Charles Homer,	<i>Chicago.</i>
Thuerer, Edward Walter, B.L. ( <i>Univ. of Wisconsin</i> ), 1903,	<i>Baraboo, Wis.</i>
Van Zant, Noble,	<i>Berrysville, Ohio.</i>
Waddington, Algernon Henry,	<i>Chicago.</i>
Wagner, Frederic John,	<i>Chicago.</i>
Walsh, Edward James,	<i>Chicago.</i>
Walters, William Alexander,	<i>Chicago.</i>
Watson, Waleska Hester,	<i>Crisman.</i>
West, William Butler,	<i>Chicago.</i>
Wickstrom, Albert Michael,	<i>Chicago.</i>
Winkler, Frank Paul,	<i>Doon, Ia.</i>
Wood, William Walter,	<i>Chicago.</i>
Woods, Bert Leslie Taylor,	<i>Chicago.</i>

Woodnick, George,	<i>Austin.</i>
Wynekoop, Gilbert Haven, B.S. ( <i>Northwestern Univ.</i> ), 1903,	<i>Chicago.</i>
Yampolsky, Rebecca Meriam,	<i>Chicago.</i>

## FRESHMAN CLASS

Aaker, Adolph Oscar,	<i>Ridgeway, Ia.</i>
Ameen, Mirza Fareed,	<i>Haifa, Syria.</i>
Aimone, John,	<i>Toluca.</i>
Allison, Charles Newton,	<i>Good Hope.</i>
Arnold, Mott Hunton,	<i>Robinson.</i>
Bachmann, Arthur Simon Henry William,	<i>Decatur.</i>
Barlow, Brodie,	<i>Robinson.</i>
Bartholomew, Eric Kline,	<i>Chicago.</i>
Beck, Niels Christian,	<i>Chicago.</i>
Beers, Dana T. Nelson,	<i>St. Joseph, Mich.</i>
Birmingham, Eugene Emmett,	<i>Chicago.</i>
Bissell, Burt George,	<i>Chicago.</i>
Briggs, Francis Earl,	<i>Gibson City.</i>
Brosseau, Jesse Edward, Ph.G., B.S. ( <i>So. Dak. Agricultural Coll.</i> ), 1900-1901,	<i>Chicago.</i>
Buckner, Arthur Jefferson,	<i>Hayden, I. T.</i>
Bulger, Charles Oliver,	<i>Gibson City.</i>
Bundy, Herman Winford,	<i>Lebanon, Ind.</i>
Clark, John Edward,	<i>Baraboo, Wis.</i>
Cole, Frederick Earl,	<i>Bethany.</i>
Crofut, Martha Marilla,	<i>Chicago.</i>
Cunningham, Joseph Louis,	<i>Burlington, Wis.</i>
Davenport, George Luther,	<i>Chicago.</i>
Dinnen, James Francis,	<i>Ft. Wayne, Ind.</i>
Drunzer, Sophia Carolina,	<i>Chicago.</i>
Edmonson, Oscar Boone,	<i>Clinton.</i>
Eidam, Louis,	<i>Chicago.</i>
Felts, Harry B, Ph. G. ( <i>Northwestern Univ.</i> ), 1903,	<i>Barron, Wis.</i>
Ford, Ada,	<i>Marshfield, Ohio.</i>
Forster, Arthur Leopold,	<i>Sterling.</i>
Gahl, Otto Albert,	<i>Chicago.</i>
Gazelle, Alfred Raddad,	<i>Chicago.</i>
Graybeal, James,	<i>Ipava.</i>
Griffin, Francis Joseph, A. B. ( <i>All-Hollows Coll.</i> ), 1903.	<i>Butte, Mont.</i>

Hageman, Silas Van,	<i>Pontiac.</i>
Hansen, Robert Rochester,	<i>Chicago.</i>
Hart, Esther Alice,	<i>Chicago.</i>
Hecht, Maurice Charles,	<i>Chicago.</i>
Holberg, Edmond Arthur,	<i>Chicago.</i>
Horton, Clyde Switzer,	<i>Fennmore, Wis.</i>
Jacobs, Joseph,	<i>Chicago.</i>
Jenkins, Hilerd Enno,	<i>Villisca, Ia.</i>
Keith, Willis Elmer,	<i>Clinton, Ia.</i>
Kelly, William Frank,	<i>Joliet.</i>
Kingsbury, Herman Buchanan,	<i>Pinkstaff.</i>
Kristjanson, Hjorleifur Transti, A. B. ( <i>Univ. of N. Dakota.</i> ), 1903.	<i>Gardar, N. Dak.</i>
Lane, Michael Angelo,	<i>Chicago.</i>
Lemmel, John Taggart,	<i>Evansville, Wis.</i>
Lovell, Arthur Irving,	<i>Milwaukee, Wis.</i>
Mesirow, Maurice Elias,	<i>Chicago.</i>
Meyerovitz, Max,	<i>Chicago.</i>
Mirabella, Salvador Frank Joseph,	<i>Chicago.</i>
Mueller, Albert Nicholas,	<i>Chicago.</i>
Muirhead, Walter Scott,	<i>Chicago.</i>
Nathanson, Frank Louis,	<i>Chicago.</i>
Nellis, James Edward Earle,	<i>Chicago.</i>
Nilsson, Betty Augustine,	<i>Rockford.</i>
Niles, Edward Kenna, A. B. ( <i>St. Ignatius Coll.</i> ), 1903.	<i>Chicago.</i>
Olson, Nels Emanuel,	<i>Rock Island.</i>
Persons, John Winfield,	<i>Marseilles.</i>
Port, Irwin Augustus,	<i>Wilton Junction, Ia.</i>
Reynolds, Hiram Farnum,	<i>Chicago.</i>
Richardson, Albert Arthur,	<i>Pontiac.</i>
Rogers, Clarence Dufferin,	<i>Chicago.</i>
Rose, Cameron Alfred,	<i>Oak Park.</i>
Schwartz, Alfred Charles.	<i>Chicago.</i>
Schiffbauer, Hans,	<i>Benson.</i>
Seibert, Henry Hulse,	<i>Chicago.</i>
Seippel, Clara Pauline,	<i>Chicago.</i>
Sekler, Charlotte Margaretha,	<i>Princeton.</i>
Shaff, DeWitt Clinton,	<i>Clinton, Ind.</i>
Shearer, Ansley Thomas,	<i>Fennimore, Wis.</i>

Sher, Samuel George,	<i>Chicago.</i>
Siedenburg, Frank, Ph. G. ( <i>U. of I.</i> ), 1898,	<i>Elizabeth.</i>
Skebelsky, Jacob William,	<i>Chicago.</i>
Smith, George Mortimer,	<i>Eau Claire, Wis.</i>
Smith, Hiram Jay,	<i>Oak Field, Wis.</i>
Staley, Wilbert A.,	<i>Montgomery, Mich.</i>
Swan, Earl Berre,	<i>Whiting, Ind.</i>
Thompson, Alma Hanna,	<i>Fall Creek.</i>
Tyler, Roy Homer,	<i>Valparaiso, Ind.</i>
Unger, Charles,	<i>Rochelle.</i>
Valkenar, Fred William,	<i>Bridgewater, S. Dak.</i>
Wade, Robert Lavern,	<i>La Grange, Ind.</i>
Wagner, Earl Peter,	<i>S. Bend, Ind.</i>
Wakefield, William Bard,	<i>Heyworth.</i>
Wassom, George,	<i>Pontiac.</i>
Whitehill, John Emerson,	<i>Chicago.</i>
Wilson, Alice Eastwold,	<i>Chicago.</i>
Wilson, Pitt Stevens,	<i>Bessemer, Mich.</i>
Wochos, Frank Joseph,	<i>Stangelville, Wis.</i>
Wolinsky, Maurice Benjamin,	<i>Chicago.</i>
Wood, Jay Thomas,	<i>Springfield.</i>
Woodcock, Albert,	<i>Byron.</i>
Young, Leroy Sylvester,	<i>Chicago.</i>

## UNCLASSIFIED

Bock, John Jay,	<i>Iowa Falls, Ia.</i>
Earle, Elizabeth, M. D. ( <i>Woman's Medical</i> ), 1884.	<i>Grand Rapids, Mich.</i>
Fleming, James Alfred, M. D. ( <i>Michigan College of Medicine and Surgery</i> ), 1896,	<i>Hart, Mich.</i>
Foster, John Alexander, LL. B. ( <i>Univ. of Mich.</i> ), 1891,	<i>Auburn, N. Y.</i>
Goodwin, Charles Edwin, M. D. ( <i>Univ. of Michigan</i> ), 1883.	<i>Ithaca, Mich.</i>
Humiston, Myrtle Wheeler, B. S., A. M. ( <i>Univ. of Neb.</i> ), 1896, 1901,	<i>Austin.</i>
Kelly, Frank Hetherington,	<i>Chicago.</i>
Knowles, Sidney Harvey, M. D. ( <i>Omaha Medical Coll.</i> ), 1885.	<i>Portland, Ore.</i>
Murphy, Bernard E.,	<i>Chicago.</i>

Schaffarzick, Charles Frank, Ph. G. ( <i>U. of I.</i> ), 1901,	<i>Livingston, Mont.</i>
Skinner, Edna Eugenia, M. D. ( <i>P. and S. Coll., Boston</i> ), 1901,	<i>Windsor, Conn.</i>
Skinner, Leander Zebina, M. D. ( <i>Baltimore Medical Coll.</i> ), 1894,	<i>Windsor, Conn.</i>
Tobia, Emilio,	<i>Chicago.</i>
Balfour, Norman,	<i>Hannah, N. Dak.</i>
Blair, Harold L.,	<i>Chicago.</i>
Campbell, Benjamin F.,	<i>Burlington, Ia.</i>
Howell, Sullivan,	<i>Chicago.</i>
Luton, S. L.,	<i>Chicago.</i>
Madison, W. R.,	<i>Chicago.</i>
Reynolds, Louis G.,	<i>Salt Lake City, Utah.</i>
Rinkenberger, F. W.,	<i>Tacoma, Wash.</i>
Wallace, James H.,	<i>Ft. Wayne, Ind.</i>

## SCHOOL OF DENTISTRY

## SENIORS

Abstein, Charles Eugene,	<i>Chicago.</i>
Arnold, Elisha Melvin,	<i>Cerro Gordo.</i>
Beringer, Eric,	<i>Belton, Tex.</i>
Berryman, William Leslie,	<i>Apple River.</i>
Brady, George,	<i>Chicago.</i>
Carey, Mae,	<i>Chicago.</i>
Cohn, Israel,	<i>Chicago.</i>
Converse, Albert Edward,	<i>Springfield.</i>
Cooley, Vernon Pentfield,	<i>Sharon, Wis.</i>
Dobbs, Chester Coleman,	<i>Minneapolis, Minn.</i>
Dickenson, Herbert Allen,	<i>Montrose, S. Dak.</i>
Eckford, John,	<i>Dunkeld, Ont.</i>
Fitzgerald, Edmund Richard,	<i>Armour, S. Dak.</i>
Fogle, Aron,	<i>Herrick, Ill.</i>
Frey, Joseph Clark,	<i>Rock Island.</i>
Freyer, Hedwig,	<i>Chicago.</i>
Glenn, Edward Morrow,	<i>Tarkio, Mo.</i>
Gorney, William Albert,	<i>Chicago.</i>
Granger, Frank Riley,	<i>Plainwell, Mich.</i>
Hobbs, Woodie Clay,	<i>Mobile, Ala.</i>
Holmes, John,	<i>Ogden.</i>



Hopkins, Lewis Warren,	<i>Garden City, Kas.</i>
Hubbard, Herman Harry,	<i>Chicago.</i>
Ireland, Thomas John,	<i>Chicago.</i>
Jacobs, Charles Theodore,	<i>Burlington, Wis.</i>
Jones, George Arthur,	<i>Flanigan.</i>
Kenny, Edward, Jr.,	<i>Manistee, Mich.</i>
Lee, Henry Cooley, Ph. G. ( <i>Northwestern Univ.</i> ), 1898,	<i>Chicago.</i>
Lichtenberg, Albert Bruno,	<i>Chicago.</i>
Loescher, Charles M,	<i>Salem, Wis.</i>
Longwell, John Carlton,	<i>Chicago.</i>
Loynd, George Reuben,	<i>Mendon.</i>
Lyon, George John,	<i>Long Branch, N. Y.</i>
McCormick, Ivor,	<i>Gibson City.</i>
Mackinson, John Charles,	<i>Pontiac.</i>
McMaster, Oscar Fitzallen,	<i>Yoakum, Tex.</i>
McWilliams, William Henry,	<i>Darlington, Wis.</i>
Mahoney, William Daniel,	<i>Chicago.</i>
Moore, Franklin Benjamin,	<i>McGregor, Texas.</i>
Murray, Joseph Lawrence,	<i>Cleveland, Ohio.</i>
Ostermeier, George Albert,	<i>New London, Wis.</i>
Peterson, Peter Christoffer Bronnum,	<i>Chicago.</i>
Ramsey, Elmer Hugh,	<i>Cottonwood, Tex.</i>
Richter, Eva Ruth,	<i>Chicago.</i>
Rodenhauser, William Robert, Ph. G., 1900.	<i>Bloomington.</i>
Schulze, Elizabeth Louise,	<i>Potsdam, Germany.</i>
Sharp, Charles Byron,	<i>Tolono.</i>
Sommerfeld, Oscar Emil,	<i>Chicago.</i>
Strom, Eugene,	<i>Chicago.</i>
Stout, Louis Aurora,	<i>Saybrook.</i>
Vahue, Earl Olson,	<i>Allegan, Mich.</i>
Van Voorhis, Fred Wilson,	<i>Des Moines, Ia.</i>
Vercoe, Ernest Wycliffe,	<i>Mont Clare.</i>
Walsh, Richard Michael,	<i>Aurora.</i>
Welch, John,	<i>Kankakee.</i>
Wells, Samuel Scott,	<i>Montreal, Can.</i>
Wertzler, Charles Fred,	<i>Chicago.</i>
Whitbeck, Frederick Ambrose,	<i>Chicago.</i>
Wilson, George Henry,	<i>Ontario, Can.</i>

## JUNIORS

Adams, Earl Edward,	<i>Plainwell, Mich.</i>
Ament, George Dunn,	<i>Yorkville.</i>
Alsip, Herbert Swiger,	<i>Ogden.</i>
Autenrieth, Bernard Bird,	<i>Fort Wayne, Ind.</i>
Bailey, Earl Root,	<i>River Forest.</i>
Baker, Grace,	<i>Chicago.</i>
Berry, Walter Howard,	<i>Rochelle.</i>
Bott, Harry Seacord,	<i>Chicago.</i>
Breckenridge, James Edward,	<i>Rockford.</i>
Campbell, James Alfred,	<i>Bangor, Mich.</i>
Clancey, Leon William,	<i>Plainwell, Mich.</i>
Comer, Charles Edgar,	<i>Vermont.</i>
Crandall, William Henry,	<i>Kempton.</i>
Darmer, John Albert,	<i>Champaign.</i>
Eiser, Lee Earl,	<i>Rochelle.</i>
Fiebig, William Frederick,	<i>Portland, Ore.</i>
Flanigan, John Joseph,	<i>Temple Hill, Ia.</i>
Funston, George Edward,	<i>Cherokee, Ia.</i>
Gordon, Stephen Francis,	<i>Manistee, Mich.</i>
Gordon, William Lee,	<i>Helena, Mont.</i>
Hendricks, Roy,	<i>Pirlee, Ia.</i>
Houston, Kenneth Ward,	<i>Beloit, Wis.</i>
Ivey, Maurice Hodge,	<i>Chicago.</i>
Kelly, Frank Hetherington,	<i>Chicago.</i>
Kerr, Norman LeRoy,	<i>Chicago.</i>
Kimmel, Nathan,	<i>Chicago.</i>
Krebs, William Aloysius,	<i>Chicago.</i>
Krog, Robert William,	<i>Chicago.</i>
LaDue, John Byron,	<i>Allegan, Mich.</i>
Lancaster, Harvey Middleton,	<i>Chicago.</i>
Lewin, Edwin,	<i>Chicago.</i>
Logan, Thomas Henry,	<i>South Wayne, Wis.</i>
McCall, William George,	<i>Bolcs.</i>
McDonald, John,	<i>Salem, Wis.</i>
McDowell, Charles,	<i>Faulton, S. D.</i>
McDowell, Elmer Newton,	<i>Woodstock,</i>
McKahan, James Edward,	<i>River Falls, Wis.</i>
Marshall, Jay Phillip,	<i>Des Moines, Ia.</i>
Mindlin, Albert,	<i>Chicago.</i>
Moore, Vernon Alvin,	<i>Mt. Carroll.</i>

Nauman, Arthur Gottlieb,	<i>Chicago.</i>
Nordgren, Robert Godfrey,	<i>Moline.</i>
Nugent, Clarence Conner,	<i>Chicago.</i>
Peterson, David Albert,	<i>Muskegon, Mich.</i>
Pogue, James Chester,	<i>Maroa.</i>
Porterfield, William Roy,	<i>Traer, Ia.</i>
Rains, Roland Roderick,	<i>Sault St. Marie, Mich.</i>
Rotzoll, Paul August,	<i>Chicago.</i>
Schroeder, Theodore,	<i>Chicago.</i>
Sepple, Charles Vicent,	<i>Chicago.</i>
Shaw, Harry Valentine,	<i>Morrison.</i>
Sherril, Charles McCurdy,	<i>Browning.</i>
Smith, Frank Haworth,	<i>Dickenson, N. D.</i>
Smith, Irving Leland,	<i>Hospital.</i>
Spare, Maurice Henry,	<i>Chicago.</i>
Stephenson, George Hume,	<i>Apple River.</i>
Stevens, Arthur Jackson,	<i>Stevens Point, Wis.</i>
Stone, William Ferdinand,	<i>Chicago.</i>
Strain, Homer Birdell,	<i>Darlington, Ind.</i>
Thomas, James M,	<i>Apple River.</i>
Weeks, Edward George	<i>Allegan, Mich.</i>
Weisz, David,	<i>Chicago.</i>
Wood, Arthur LaMonte,	<i>Wyocena, Wis.</i>
Wybraniec, Peter,	<i>Chicago.</i>
Young, Arthur John Hellmuth,	<i>Chicago.</i>

**FRESHMEN**

Baar, Louis,	<i>Chicago.</i>
Carr, Morris M.,	<i>Chicago.</i>
Clinite, Floyd Ellis,	<i>Rochelle.</i>
Cree, Charles Garfield,	<i>Flora, Ind.</i>
Desser, Louis,	<i>Chicago.</i>
Ertel, Herman Henry,	<i>Chicago.</i>
Gill, Walter William,	<i>Corning, Iowa.</i>
Goglonaski, Walter E.,	<i>Chicago.</i>
Hammot, Charles R.,	<i>Chicago.</i>
Helmick, Otto W.,	<i>Bellflower.</i>
Holden, Walter Horace,	<i>Chicago.</i>
Jent, James Abram,	<i>Hospital.</i>
Krone, Otto August,	<i>Northfield, Minn.</i>
LaBuy, Frank J.,	<i>Chicago.</i>

Larson, James,	<i>Chicago.</i>
Ludwig, Frank Martin,	<i>Chicago.</i>
Marquis, Robert Lyle,	<i>Chicago.</i>
Mason, Clarence Joseph,	<i>Newell, Iowa.</i>
Mauerman, Hugo Charles,	<i>Chicago.</i>
Meyers, W. H.,	<i>Chicago.</i>
Miller, Louis,	<i>Chicago.</i>
Mortenson, John Ole,	<i>Burbank, Cal.</i>
Murray, Joseph F.,	<i>Chicago.</i>
Nelson, Theodore Martin,	<i>Oak Park.</i>
Preusker, Alvin,	<i>Chicago.</i>
Sandell, R. W.,	<i>Chicago.</i>
Stachon, Peter,	<i>Chicago.</i>
Stocker, Carl George,	<i>Newell, Ia.</i>
Taylor, Elmer Eugene,	<i>Chicago.</i>
Tym, William Bradford,	<i>Todd Point.</i>
Thompson, William,	<i>Chicago.</i>
Urbanek, Joseph,	<i>Chicago.</i>
Vita, Valerian Julian,	<i>Faribault, Minn.</i>
Walker, Thomas Raymond,	<i>Anniston, Ala.</i>
Waterman, Glen,	<i>Newell, Ia.</i>
Wimmer, Wallace Alexander,	<i>Chicago.</i>
Worthington, Chester Allen,	<i>Indianola.</i>
Worthington, Samuel Lester,	<i>Indianola.</i>
Wright, James Alexander,	<i>Chicago.</i>

## SCHOOL OF PHARMACY

## SENIORS

Albright, Guy Stanley,	<i>Chicago.</i>
Atkinson, Rolly Darby,	<i>Chicago.</i>
Bade, Walter Albert,	<i>Wausau, Wis.</i>
Barber, Elmer Clarence,	<i>Chicago.</i>
Behrensmeyer, Harry Frederick,	<i>Quincy.</i>
Bergstedt, James Peter,	<i>Chicago.</i>
Breithaupt, Bertram Louis,	<i>Peoria.</i>
Brown, Clyde Alan,	<i>Chicago.</i>
Brown, James Francis,	<i>Chicago.</i>
Chvala, Vincent Joseph,	<i>Chicago.</i>
Clark, Albert Henry,	<i>Springfield.</i>
Colby, Oliver Roy,	<i>Litchfield.</i>

Converse, Ralph Morris,	<i>Seymour, Ind.</i>
Cozad, Delos,	<i>Decatur.</i>
Demes, Charles,	<i>Chicago.</i>
Donahue, Joseph Michael,	<i>Chatsworth.</i>
Dustin, Leslie Bertrand,	<i>Peoria.</i>
Eberley, Fred Hiram,	<i>Sterling.</i>
Gelly, Robert, Jr.,	<i>Nokomis.</i>
Ginnsy, Leo Aloysius,	<i>Sublette.</i>
Gold, Morris,	<i>Chicago.</i>
Hadley, Elmer Walter,	<i>Mt. Carmel.</i>
Halpert, Joseph David,	<i>Chicago.</i>
Hards, Raymond Nelson,	<i>Grand Junction, Colo.</i>
Hartig, John Frederick,	<i>Peoria.</i>
Hartley, Henry Oliver,	<i>Astoria.</i>
Higgins, Charles Louis,	<i>Oneida.</i>
Hill, Alvah Lane,	<i>Yorkville.</i>
Hubbard, Winfield Scott,	<i>Grand Junction, Colo.</i>
Johnson, Philip Charles,	<i>South Platte, Colo.</i>
Juers, Richard Henry,	<i>Wausau, Wis.</i>
Keusink, William Ben,	<i>Champaign.</i>
Kitch, Enos Holt,	<i>De Soto.</i>
Knudson, Ellert George,	<i>Chicago.</i>
Koch, Oswin Fred William,	<i>Chicago.</i>
Koller, Charles John,	<i>Chicago.</i>
Leiner, William John,	<i>Ottawa.</i>
Lindahl, Anton Emanuel, B. S. ( <i>Augustana Coll.</i> ), 1902,	<i>Wakefield, Neb.</i>
McMaster, Clyde Allen, B. S. ( <i>Univ. of Neb.</i> ), 1901,	<i>Pawnee City, Neb.</i>
Macham, Forrest David,	<i>Tecumseh, Mich.</i>
Mattix, Charles Edward,	<i>Duluth, Minn.</i>
Mitchell, William Lewis,	<i>Chicago.</i>
Modaff, John Nick,	<i>Aurora.</i>
Moss, Harry Semple,	<i>Clinton, Ky.</i>
Nadherny, Louis James,	<i>Chicago.</i>
Nelson, Clarence Harry,	<i>Chicago.</i>
Oeth, Anton Joseph,	<i>Dubuque, Ia.</i>
Ozanne, Philo Hoysradt,	<i>Tempe, Ariz.</i>
Pattison, Stanley Rensselaer,	<i>Monmouth.</i>
Porter, George Melville, A. B. ( <i>Roger Williams Univ.</i> ), 1901,	<i>Columbia, Tenn.</i>

Powell, Charles Edward,	<i>Bangor, Mich.</i>
Sanders, Edwin John,	<i>Fort Dodge, Ia.</i>
Sankiewicz, Chester Aloyze,	<i>Chicago.</i>
Schumm, Hugo Julius,	<i>La Porte, Ind.</i>
Schwanke, Louis Reinhold Arulf,	<i>Hochheim, Wis.</i>
Senger, Peter Xavier,	<i>Danville.</i>
Shaynin, James,	<i>Chicago.</i>
Slauson, Harry Eugene,	<i>Denver, Colo.</i>
Stahl, August Ferdinand,	<i>Chicago.</i>
Starkey, James Fred,	<i>Pesotum.</i>
Stuchlik, Edward,	<i>Chicago.</i>
Timmermier, John George,	<i>Fremont, Neb.</i>
Ulrich, Murble Booker,	<i>Vermilion.</i>
Venn, Charles,	<i>Chicago.</i>
Watson, Harvey Andrew,	<i>Antioch.</i>
Webster, Richard Chauncey,	<i>Canton.</i>
Wiltgen, John Peter,	<i>Chicago.</i>
von Zelewski, Frank George,	<i>Chicago.</i>

#### JUNIORS

Aaseth, Carl Martin,	<i>Gayville, So. Dak.</i>
Alexa, Anton Joseph,	<i>Chicago.</i>
Angne, William Bertram,	<i>Chicago.</i>
Argraves, Eber Delos,	<i>Sterling.</i>
Bartkowski, John Sergius,	<i>Chicago.</i>
Berthlein, Fred,	<i>Chicago.</i>
Betourne, Amedee Thomas,	<i>Kankakee.</i>
Biermann, Clifford John,	<i>Cincinnati, Ohio.</i>
Billiekin, Abraham E,	<i>Chicago.</i>
Bilyeu, Fred McKinney,	<i>Pocahontas.</i>
Boltz, Charles,	<i>Chicago.</i>
Bottom, Centennial John,	<i>Sparta.</i>
Bourland, Allen Newton,	<i>Equality.</i>
Boyce, Charles William,	<i>Chicago.</i>
Brehmer, Otto,	<i>Wausau, Wis.</i>
Burdick, Merle Masson,	<i>Edelstein.</i>
Burger, Russell,	<i>Beloit, Wis.</i>
Collins, Archibald Matt,	<i>Chicago.</i>
Christman, Edgar H.,	<i>Shelbyville.</i>
Christman, Homer,	<i>Shelbyville.</i>
Curtis, Arthur E.,	<i>Rock Falls.</i>

Dale, Gustav Garfield,	<i>Sullivan, Ind.</i>
Detrick, Leo George,	<i>Chicago.</i>
Diebold, William Harold,	<i>Springfield.</i>
Dillow, Guy Garland,	<i>Dongola.</i>
Dolejsi, James Edward,	<i>Chicago.</i>
Donnelly, Christopher John,	<i>Chicago.</i>
Dufner, William Vincent,	<i>Peoria.</i>
Fallis, Perry Leroy,	<i>Chicago.</i>
Fox, Leonard Berry,	<i>Chicago.</i>
Frank, Charles,	<i>Minot, No. Dak.</i>
Gauthier, Charles Desire,	<i>Green Bay, Wis.</i>
Gerhardt, August Edward,	<i>Springfield.</i>
Goetsche, Walter George,	<i>Quincy.</i>
Goodman, Isaac,	<i>Chicago.</i>
Graziadei, George Sebastian,	<i>Chicago.</i>
Hall, John Ross,	<i>Bloomington.</i>
Henderson, Josiah Carroll,	<i>Atlantic City, N. J.</i>
Hisgen, Fred Joseph,	<i>Chicago.</i>
Honsik, James Michael,	<i>Chicago.</i>
Howes, Lincoln,	<i>Bloomington.</i>
Hunter, James Chester,	<i>Warren, Ohio.</i>
Indovina, Michael,	<i>Chicago.</i>
Jacob, Herman Ferdinand,	<i>Oak Park.</i>
Jacobs, Edward Benjamin,	<i>Chicago.</i>
Johnson, Milton,	<i>Chicago.</i>
Joyce, Edward,	<i>Chicago.</i>
Kerstine, Brun Harry,	<i>Ashley.</i>
Kroll, Francis, Jr.,	<i>Chicago.</i>
Laatz, John Ernest,	<i>Chicago.</i>
Lapham, Elah Adalbert,	<i>Nekoosa, Wis.</i>
Larson, Thomas Lewis,	<i>Kasson, Minn.</i>
Lenz, Charles Frederick,	<i>Marietta, Ohio.</i>
Levin, Justine Aaron,	<i>Chicago.</i>
Longshore, William Henry,	<i>Grand Junction, Colo.</i>
Lukasek, Edward Albert,	<i>Chicago.</i>
McCall, Charles Edward,	<i>Chicago.</i>
McGinley, Ebner,	<i>Moweaqua.</i>
McGuinn, Frank Thomas,	<i>Rock Island.</i>
Mackrodt, John James,	<i>Peru.</i>
Masters, Richard Henry,	<i>Chicago.</i>
Mauro, Edmund,	<i>Chicago.</i>

Mayfield, Frank,	<i>Mt. Vernon.</i>
Mesirow, Nathan,	<i>Chicago.</i>
Meyer, James Blane,	<i>Rensselaer, Ind.</i>
Meyerowitz, Morris Joseph,	<i>Chicago.</i>
Moreland, Walter Henry, Jr.,	<i>Metropolis.</i>
Newman, Robert,	<i>Chicago.</i>
Newsome, Robert Emmet,	<i>Chicago.</i>
Niece, Raymond Perry,	<i>Terre Haute, Ind.</i>
Olzewski, Edward,	<i>Chicago.</i>
O'Neill, Garrett James,	<i>Evanston, Wyo.</i>
Ostrowski, Loenard Joseph,	<i>Hammond, Ind.</i>
Parker, Leslie Frank,	<i>Chicago.</i>
Parker, John Kumler,	<i>Griggsville.</i>
Patejal, James,	<i>Chicago.</i>
Pick, Rose Kraus,	<i>Chicago.</i>
Pocock, Thomas Grover,	<i>Crestline, Ohio.</i>
Powell, Charles Joseph,	<i>Kenton, Tenn.</i>
Plummer, Louis W.,	<i>Chicago.</i>
Ratkowski, Frank,	<i>Chicago.</i>
Rettig, John Henry,	<i>Quincy.</i>
Robinson, John William,	<i>Peru.</i>
Roth, Abraham,	<i>Chicago.</i>
Sangermann, William Edward,	<i>Chicago.</i>
Sass, Stefan Konrad,	<i>Chicago.</i>
Scheips, Theodore Immanuel,	<i>Peru, Ind.</i>
Schrepel, Oliver Henry,	<i>Ellinwood, Kas.</i>
Secord, George Louis,	<i>Chicago.</i>
Seifreid, George William,	<i>Chicago.</i>
Seibrandt, Martin John,	<i>Merrill, Wis.</i>
Shisler, Edward Clarence,	<i>Chicago.</i>
Slater, David Ralph,	<i>Peoria.</i>
Smith, Lester Raymond,	<i>West Middletown, Pa.</i>
Smith, Robert Charles,	<i>Chicago.</i>
Staack, Hugo Franz,	<i>Maquoketa, Iowa.</i>
Staeleling, George,	<i>Chicago.</i>
Stuelke, Arthur,	<i>Oshkosh, Wis.</i>
Stuker, Conrad Stephen,	<i>Chicago.</i>
Taylor, Adalbert Brink,	<i>Cuba.</i>
Topisovsky, Henry,	<i>Chicago.</i>
Tracy, Bert Ross,	<i>Elgin.</i>
Trump, George Frederick,	<i>Ellinwood, Kas.</i>



Vogt, Walter Frank,	<i>Milwaukee, Wis.</i>
Walsh, Arthur,	<i>Cuba.</i>
Weeks, Frederick William,	<i>Chicago.</i>
Wehrley, John Henry,	<i>Chicago.</i>
Weinschenk, Harvey,	<i>Chicago.</i>
Wells, Frances Ellsworth,	<i>Peotone.</i>
Wile, Thomas Hudson,	<i>Texarkana, Tex.</i>
Williams, Arthur Henry,	<i>Elwood.</i>
Wilson, Milton Grundy,	<i>Lostant.</i>
Windmueller, Rudolph Leopold Franz,	<i>Chicago.</i>
Winters, Frank Herman,	<i>Chicago.</i>
Wolinsky, Joseph,	<i>Chicago.</i>
Zelt, John Homer,	<i>Chicago.</i>
Zukowski, John Leon,	<i>Chicago.</i>

## ACADEMY

Abernathy, Sherman Carter,	<i>Danville.</i>
Akers, Nellie,	<i>Urbana.</i>
Albayda, Gandencia Alejandro,	<i>Stog Negros, O., P. I.</i>
Almy, William Herbert,	<i>Sterling.</i>
Anderson, Harry,	<i>Chicago.</i>
App, Charles Max,	<i>Urbana.</i>
Arnold, Ross Harper,	<i>Leland.</i>
Atkinson, Frank,	<i>Urbana.</i>
Baird, Pearl Browning,	<i>Fairmount.</i>
Barber, Elizabeth Lenora,	<i>Fulton.</i>
Barnhart, Edna Pearl,	<i>Urbana.</i>
Baron, Meddie Wilfred,	<i>St. Anne.</i>
Bauer, August Harvey,	<i>Chicago.</i>
Black, William Zachariah,	<i>Urbana.</i>
Blue, Edna,	<i>Urbana.</i>
Bond, Luella Mabel,	<i>Champaign.</i>
Boone, Grace Gussie,	<i>Urbana.</i>
Bowser, Roy David,	<i>Bishop.</i>
Bradley, William Horace,	<i>White Heath.</i>
Brand, Clara Frederica,	<i>Champaign.</i>
Breedlove, James Ellison,	<i>Arcola.</i>
Brokaw, Eugene Caldwell,	<i>Sheldon.</i>
Brooks, Charles Franklin,	<i>Urbana.</i>
Brooks, Henry Morgan,	<i>Urbana.</i>

Brooks, Verna,	<i>Macon.</i>
Brownfield, Nora Isabella,	<i>Urbana.</i>
Buchanan, Robert Read,	<i>Urbana.</i>
Buck, Colburn Fields, Jr.,	<i>Springfield.</i>
Buck, Turney English,	<i>Springfield.</i>
Burrill, Irene Elsa,	<i>Urbana.</i>
Cairns, John Webster,	<i>Hebron.</i>
Campbell, Warner Lucas,	<i>Lewiston.</i>
Canaday, Ora Luther,	<i>Ogden.</i>
Carr, John Robinson,	<i>Bowling Green, Mo.</i>
Casey, George Washington,	<i>Olney.</i>
Childs, Merlin Will,	<i>Keithburg.</i>
Clarke, Claude E.,	<i>Urbana.</i>
Clinite, Raymond Grover,	<i>Cherry Valley.</i>
Colvin, John Thomas,	<i>Urbana.</i>
Constant, Lyman John,	<i>Illio polis.</i>
Cooke, Charles Edmund,	<i>Bowen.</i>
Core, Guy Chalmers,	<i>Grand Ridge.</i>
Corzine, Jesse Miner,	<i>Stonington.</i>
Crain, Charlotte Catlin,	<i>Augusta.</i>
Dallenbach, Glenore Emma,	<i>Champaign.</i>
Davies, James Odes,	<i>Bloomfield.</i>
Davis, Etta Violet,	<i>Urbana.</i>
Davis, William Rollin,	<i>Shelbyville.</i>
Denhan, John,	<i>Rockeport, Mo.</i>
Dietmeyer, Leslie Raymond,	<i>Wadsworth.</i>
Durfey, Frank Aletha,	<i>Tolono.</i>
Dyniewicz, Mathew January,	<i>Chicago.</i>
Ehrgott, Otto Ameal,	<i>Quincy.</i>
English, Jesse Thomas,	<i>Isabel.</i>
Esselborn, William,	<i>Pearl City.</i>
Fallon, Clara May	<i>Champaign.</i>
Fisher, William Arthur,	<i>Ogden.</i>
Folkers, George,	<i>Bement.</i>
Foran, Patrick,	<i>Toluca.</i>
Freeman, Edward Edgar,	<i>Ogden.</i>
Fullenwider, Alice Evelyn,	<i>Mechanicsburg.</i>
Garver, Frank Scott,	<i>Rockford.</i>
Gaston, Omar Lawrence,	<i>Urbana.</i>
Gates, Orus Ethan,	<i>Tuscola.</i>
Gibson, Fred D,	<i>Delavan.</i>

Gibson, Miles Otto,	<i>Urbana.</i>
Gloyd, Galen Van Rensselaer,	<i>Macomb.</i>
Glynn, Arthur,	<i>Rochester, Ind.</i>
Goll, George Gerald,	<i>Chicago.</i>
Gourley, Margaret Trevif,	<i>Paxton.</i>
Gourley, James Linus,	<i>Paxton.</i>
Gourley, Mary Jane,	<i>Paxton.</i>
Graham, Albert Edgar,	<i>Monmouth.</i>
Graves, John Thomas,	<i>Tonica.</i>
Greer, Rachel Ellen,	<i>Champaign.</i>
Gregory, Mabel,	<i>Moweaqua.</i>
Grigsby, Bertram James,	<i>Peoria.</i>
Hall, Charles Walter,	<i>East Lynn.</i>
Hall, Ward Edna,	<i>La Moille.</i>
Hamilton, Julius Rugg,	<i>Champaign.</i>
Hanker, Walter Herman,	<i>Toledo.</i>
Hardin, Harry Harlan,	<i>Homer.</i>
Harnsberger, Bertha Sawyer,	<i>Champaign.</i>
Harrington, Oldis Ivan,	<i>Rockford.</i>
Harrington, Howard Peter,	<i>Urbana.</i>
Harris, Agnes Ziza,	<i>Urbana.</i>
Harris, Ralph Maurell,	<i>Champaign.</i>
Hasket, Paul Edmund,	<i>Baxter Springs, Kas.</i>
Hatch, Edith Hodgen,	<i>Champaign.</i>
Hawkins, Ernest Raymond,	<i>Palestine.</i>
Head, Frank William,	<i>Rock Island.</i>
Heath, James Roy,	<i>White Heath.</i>
Hecker, Morris Littlefield,	<i>Morrison.</i>
Hill, Lucy Bell,	<i>Urbana.</i>
Hill, Jesse Leven,	<i>Oakwood.</i>
Hirsch, Stanton Pike,	<i>St. Louis, Mo.</i>
Holmes, Thomas Kerr,	<i>Kankakee.</i>
Holton, Charles Roy,	<i>Colchester.</i>
Horner, Harry Sterling,	<i>Rockford.</i>
Huckin, Franklin Roscoe,	<i>Ogden.</i>
Hueckel, Albert Phillip,	<i>Caseyville.</i>
Hughes, Chester Arthur,	<i>Urbana.</i>
Hughes, Josephine Catherine,	<i>Champaign.</i>
Hughes, Alexander Gibon,	<i>Antioch.</i>
Hundley, Wilber Earl,	<i>Olney.</i>
Hyde, Wilbur Gilpin,	<i>Rising.</i>

Ireland, Etha Mae,	<i>Champaign.</i>
James, Charles Austin,	<i>Chester.</i>
Johanning, Paul Martin,	<i>Champaign.</i>
Johnson, Leslie,	<i>Taylorville.</i>
Johnston, James Milton,	<i>Milan.</i>
Jones, Mabel Evelyn,	<i>Urbana.</i>
Judd, Orrel Perry,	<i>Urbana.</i>
Kaeser, Emil Frederick,	<i>Highland.</i>
Kamm, Carl Frederick,	<i>Atwood.</i>
Keating, Ora Albert,	<i>Champaign.</i>
Keeler, Max Newton,	<i>Bondville.</i>
Kegley, Franklin Thompson, Jr.,	<i>Urbana.</i>
Kell, Lester Long,	<i>Kell.</i>
Keough, Emmett,	<i>Bath.</i>
King, Emma Lucy,	<i>Fairbury.</i>
Kirkpatrick, Glenn,	<i>Urbana.</i>
Kreiling, Chris Hermann,	<i>Forest City.</i>
Kyle, Ethelwyn Annabel,	<i>Aberdeen, S. D.</i>
Lanferman, Walter,	<i>Chicago.</i>
Langan, John Joseph,	<i>Clifton.</i>
Legg, Clark Laurence,	<i>Pontiac.</i>
Lego, Henry J.,	<i>Urbana.</i>
Leonard, Eugene Turner,	<i>Pekin.</i>
Lewis, Edgar Guy,	<i>Macomb.</i>
Lilienstein, Arthur Webster,	<i>Petersburg.</i>
Linde, Charles Albert,	<i>Chicago.</i>
Long, Leon Root,	<i>Amboy.</i>
Love, Norma Catherine,	<i>Danville.</i>
Lowry, Charles Addison, Jr.,	<i>Lowry, La.</i>
Lowry, Clyde Byrant,	<i>Lowry, La.</i>
Lucas, Leonora,	<i>Urbana.</i>
McDorman, John Allen,	<i>Selma, O.</i>
McAlister, Paul Franklin,	<i>Champaign.</i>
McClain, Doyle C.,	<i>Urbana.</i>
McDonough, John,	<i>Urbana.</i>
Machamer, Walter Ellis,	<i>Fulton.</i>
McKenna, John Edward,	<i>Chicago.</i>
McKinney, Roland Boyd,	<i>Urbana.</i>
McKinney, Lila,	<i>Gifford.</i>
McKinney, Clarence David,	<i>Gifford.</i>

McKinney, Roy Harrison,  
 Markey, James Lawrence,  
 Marshall, Howard George,  
 Maston, Charles Blackmore,  
 Maxwell, Margaret,  
 Meharry, Vinton Switzer.  
 Meneley, Carl Finch,  
 Mentch, Foy Luna,  
 Miller, Clarence Bonwell,  
 Morrison, John Leland,  
 Mullin, Glen Hawthorne,  
 Neikirk, Frank Calbourne,  
 Nettleton, Ernest Brown,  
 Nicodemus, Frederick Bowman.  
 Norton, Floyd,  
 Noyes, Caleb Kirby,  
 Odernheimer, Virginia Chester,  
 Oldham, Clyde Carleton,  
 Oppermann, Anna Lizzetta,  
 Orr, Edward Lyle,  
 Osterman, Axel Hjalmar,  
 Parkinson, Lawrence Martin,  
 Parr, William Edward,  
 Parr, Elisabeth,  
 Peters, Walter Cleveland,  
 Peterson, Frank Oscar,  
 Phifer, Francis Marion,  
 Phifer, ReRoy Henry,  
 Philippe, Jay Simpson,  
 Pierce, Laura Estelle,  
 Powell, Clure Morris,  
 Putney, Charles Robert,  
 Rebman, Gail.  
 Reed, Rono,  
 Reid, Clem Daro,  
 Richmond, Wilson,  
 Robbins, Philo Thompson.  
 Robertson, Roy Clifton,  
 Roll, Alva Eston,  
 Rook, Mary Susie,

*Gifford.*  
*Chicago.*  
*Atwood.*  
*Elkhart.*  
*Illiopolis.*  
*Windgatc, Ind.*  
*Urbana.*  
*Cary Station.*  
*Omaha, Neb.*  
*Waterman.*  
*Urbana.*  
*Forest City.*  
*Ashton.*  
*Forreston.*  
*Murdock.*  
*St. Louis, Mo.*  
*Champaign.*  
*Urbana.*  
*Cullom.*  
*Vinita, I. T.*  
*Rock Island.*  
*Dix.*  
*Rockford.*  
*Urbana.*  
*Mayview.*  
*Donovan.*  
*Shumway.*  
*Shumway.*  
*Champaign.*  
*Gifford.*  
*Bowen.*  
*Serena.*  
*Frederick.*  
*Janesville.*  
*Arrowsmith.*  
*Fisher.*  
*Payson.*  
*Pcoria.*  
*Longview.*  
*Bowen.*

Russell, George Washington,	<i>Fairmount.</i>
Sanford, Robert McMynn,	<i>Racine, Wis.</i>
Schniedwind, John Charles,	<i>Chicago.</i>
Seybold, John William,	<i>Loveland, Colo.</i>
Seymour, Walter Alfred,	<i>Henning.</i>
Short, Henry Clifford,	<i>Neoga.</i>
Silver, Spencer Ferguson,	<i>Urbana.</i>
Simer, Jerome Kenneth,	<i>Urbana.</i>
Simpson, Frank,	<i>Pana.</i>
Smith, Bertha Elizabeth,	<i>Urbana.</i>
Smith, Verna Marcella,	<i>Champaign.</i>
Smith, Wallace Revere,	<i>Cameron.</i>
Snow, Elbert Summers,	<i>Cody, N. C.</i>
Spear, John Frank,	<i>Mason City.</i>
Stair, Jacob Leander, Jr.,	<i>Altamont.</i>
Stevenson, Chester E.,	<i>Urbana.</i>
Stolle, Ida Josephine,	<i>Urbana.</i>
Stowell, Charles Edward,	<i>Tampa, Fla.</i>
Swartz, Wilmot,	<i>Galesville.</i>
Tenhaeff, John Alexander,	<i>LaPrairie.</i>
Thomas, Jennie Insley,	<i>Homer.</i>
Thornton, Ella.	<i>Sadorus.</i>
Tucker, Jesse Orin,	<i>Boston, Mo.</i>
Vanneman, Ralph Benjamin,	<i>Urbana.</i>
Wagner, Robert Charles, Jr.,	<i>Urbana.</i>
Wahl, Louie August, Jr.,	<i>Urbana.</i>
Walker, Charles M.,	<i>St. Joseph.</i>
Walker, Edward Isaac,	<i>Peoria.</i>
Walker, Emery Sumner,	<i>Chicago.</i>
Watts, Harry Francis,	<i>Saunemin.</i>
Watts, Francis Joseph,	<i>Ivesdale.</i>
Webber, Guy H.,	<i>Ludlow.</i>
Webster, Robert Lorenzo,	<i>Urbana.</i>
Wheeler, Arthur Wayne,	<i>Bellflower.</i>
White, Seymour John,	<i>White Heath.</i>
Wilson, Lester Roy,	<i>Foosland.</i>
Woll, Henry Lawrence,	<i>Lovington.</i>
Yarnell, Jacob Henry,	<i>Bowen.</i>
Yott, Frank Dauneil,	<i>Chicago.</i>
Youle, John Wilbur,	<i>Scales Mound.</i>

Youle, Wilbur Tear,	<i>Delavan.</i>
Zeller, John George,	<i>Spring Bay.</i>
Zimmerman, Fred Riner,	<i>St. Joseph.</i>
Zink, Herbert Charles,	<i>St. Clair, Mich.</i>

## SPECIALS IN MUSIC

Aldrich, Robert Dewar,	<i>Tampico.</i>
Bass, Oneda Mattie,	<i>Fairmount.</i>
Bassett, Breta Pearl,	<i>Lezcret.</i>
Brooks, Frances,	<i>Urbana.</i>
Brown, Ollie May,	<i>Urbana.</i>
Butler, Anna Rebecca,	<i>Homer.</i>
Cohen, Julius Bernstein,	<i>Urbana.</i>
Craig, Hazel Ione,	<i>Champaign.</i>
Eyestone, Bertha Josephine,	<i>Champaign.</i>
Groves, Evangeline Eunice,	<i>Champaign.</i>
Hirzel, Mabel May,	<i>Mt. Pleasant, Mich.</i>
Howe, Amy,	<i>Urbana.</i>
Howser, Esther Belle,	<i>Urbana.</i>
Huff, Florence Lenore,	<i>Urbana.</i>
Littell, Huldah Maude,	<i>Fithian.</i>
Lohman, Leona Alice,	<i>Urbana.</i>
Lytle, Olive Clara,	<i>Urbana.</i>
McClurg, Cora Ada,	<i>Urbana.</i>
Piper, Grace Edith,	<i>Cisco.</i>
Shaw, Lottie J,	<i>Champaign.</i>
Shiple, Alta Irene,	<i>Petersburg.</i>
Shuck, Fred Vinton,	<i>Urbana.</i>
Trust, Gertrude Ethel,	<i>Philo.</i>
Vanneman, Grace Sadonia,	<i>Urbana.</i>
Wehrman, Meta,	<i>Sadorus.</i>
White, Alta Ida,	<i>Danville.</i>
Wilson, Jennie Ethel,	<i>Urbana.</i>

## SUMMARY OF STUDENTS—1903—1904

	<i>Men.</i>	<i>Women.</i>	<i>Total.</i>
GRADUATE SCHOOL.....	92	26	118
UNDER GRADUATE COLLEGES—			
Seniors .....	170	104	274
Juniors .....	186	72	258
Sophomores .....	288	87	375
Freshmen .....	439	134	573
Specials.....	196	106	302
	— 1279	— 503	— 1782
SPECIALS IN AGRICULTURE .....	133	1	134
SPECIALS IN HOUSEHOLD SCIENCE		14	14
SUMMER TERM.....	137	92	229
COLLEGE OF LAW—			
Third year .....	36		36
Second year.....	27		27
First year.....	52		52
Specials.....	27		27
	— 142		— 142
COLLEGE OF MEDICINE—			
Seniors .....	227	18	245
Juniors .....	178	12	190
Sophomores .....	132	11	143
Freshmen .....	85	9	94
Unclassified .....	19	3	22
	— 641	— 53	— 694
COLLEGE OF DENTISTRY—			
Seniors .....	56	3	59
Juniors .....	64	1	65
Freshmen .....	39		39
	— 159	— 4	— 163
SCHOOL OF PHARMACY—			
Seniors .....	68		68
Juniors .....	116	1	117
	— 184	— 1	— 185
ACADEMY.....	189	68	257
	— 2956	— 762	— 3718
Deduct counted twice.....	80	44	124
	— 2876	— 718	— 3594



## DEGREES

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Commencement Day, June 12, 1903, degrees were conferred as follows:

### A.B.

Edith Louise Allen.	Roy James DeMotte.
Mae Louise Allen.	Oliver Morton Dickerson.
Mary Anderson.	Clara Edna Fisher.
Lou Baker.	Ethel Clara Schumann Forbes.
James Theophilus Barrett.	Marjorie Douglas Forbes.
Katharine W. Bear.	Lois Gertrude Franklin.
Francis Marion Beaty.	Frances Emeline Gilkerson.
John Milton Berger.	Clarence Green.
George W. Black.	Emery Roe Hayhurst.
Anna Louise Bond.	Lillian Heath.
Harry Lehre Boon.	Lyle George Herrick.
Lucina Jane Borton.	Edna DuBois Hoff.
Jessie Isabelle Bradshaw.	Marjorie Campbell Holderman.
Marguerite Pauline Buerkin.	Ellen Alden Huntington.
Jean Burkhart.	Sophie Hyde.
Mildred Ann Burrill.	Frank Emerson Inks.
Daisy Irene Campbell.	Elwood Almon Kingston.
Frank Tracy Cavanor.	William David Knowlton.
Anna Olive Chacey.	Lawrence Fred Larson.
Daniel Ward Chapman.	Mary Lentz.
Estella Forth Chisholm.	Isabel McRobie.
Matilda Lenna Clark.	George Edward Marker.
Homer Clarence Coen.	Ralph Garfield Mills.
John Fay Cusick.	Stella Webster Morgan.
LeRoy Gilbert Dake.	Winifred Myers.
Thomas Francis Danahey.	Mary Frances Nesbit.
Wilmer Esla Davis.	Samuel Rufus Noe.
Charles Hubbard Dawson.	Roy Sheldon Parker.

Robert William Parr.  
 George Augustus Powers.  
 Henry Joseph Quayle.  
 Susie Farley Rolfe.  
 Gustavus Adolphus Schmidt.  
 Maude Lillian Sheldon.  
 Addison M. Shelton.  
 John Earl Shoemaker.  
 Charles Henry Smith.  
 Charles Wesley Smith.  
 John Jack Spriggs.  
 Lucia Alzina Stevens.

John Carl Stine.  
 Cornelia Emma Strehlow.  
 Adah Helen Stutsman.  
 Lloyd Vernon Walcott.  
 Ruth Aimee Wardall.  
 Pearl Webber.  
 Miriam Ursula Welles.  
 Hanna Amanda Westhold.  
 George Shirley Wilson.  
 Metta Edna Woodworth.  
 Lester William Zartman.

## B.S.

Charles Apple.  
 James Ellis Armstrong.  
 James Thomas Atwood.  
 Clarence Herbert Bean.  
 Ernest Bear.  
 LeRoy Fitch Beers.  
 Edgar William Block.  
 Austin Bond.  
 Edwin Cressy Briggs.  
 Lewis Brown.  
 Wayne Edison Burkhalter.  
 John William Catron.  
 Martin Tuttle Chamberlain.  
 John Edward Conley.  
 James Fitchie Cook.  
 George Ashley Crosthwait.  
 George Hamm Dickerson.  
 Leo Dolkart.  
 Ralph Southward Drury.  
 James Franklin Duffy.  
 William Van Dunkin.  
 Gustav Herman Eidmann.  
 Clarence Wilson Fiske.  
 Maurice Deen French.  
 Ralph Hawes Gage.  
 Henry Rhiel Garden.  
 Ralph Mayo Gaston.

Charles Henry Green.  
 George Conrad Habermeyer.  
 Samuel John Haight, Jr.  
 Charles Huntington Higgins.  
 Vernon Milner Holder.  
 Frank Bruce Ingersoll.  
 Washington Parker Ireland.  
 Henry Phelps Jarman.  
 Albert Myron Johnson.  
 Frederick Dawson Johnson.  
 Robert Hayden Kuss.  
 William Adelbert Kutsch.  
 Alfred Curtis LeSourd.  
 Robert Clinton Lloyd.  
 John Albert McFarland.  
 Charlotte Briggs Nelson.  
 Thomas Noble.  
 George Carroll Oxer.  
 Christian Peter Lauritz Petersen.  
 Banus Hutson Prater.  
 Hugh Mitchell Price.  
 Loring Harvey Provine.  
 William Everton Ramsey, A.B.  
 John Jefferson Richey.  
 Fred Elmer Rightor.  
 Fred Wayland Rose.  
 Roy Weaver Rutt.

George Loyal Sawyer.	Leonard Fred Stuebe.
John Henry Schacht.	James Wolfe Sussex.
Budd Willard Seymour.	Albert Grafton Varnes.
Victor Lorenzo Sheldon.	Jacob H. Wallace.
Roderick William Siler.	Fred Mason Wells.
Elgie Ray Skinner.	Hammond William Whitsitt.
Carl Steinwedell.	Joseph Wade Wilson.
Ellsworth Prime Storey.	Arthur Norman Zangerle.

## LL.B.

Charles Vincent Barrett.	Clyde Milton Mathews.
John Philip Beckman.	John Deloss Mell.
Harry Armand Biossat.	Frederick Louis Nees.
Luther Earle Birdzell.	Charles Lewis Ogden.
Francis Thomas Carson.	James William Pettyjohn.
Horatio S Davis.	Charles Robert Pollard.
Delbert Riner Enochs. A.B., 1898.	Frank Hielt Rhea, A.B., 1898.
John Francis Gavin.	Garland Stahl.
Rolla Burdette Grove	Clyde Ernest Stone.
Herman Eugene Hartline.	Hal Marot Stone.
Andrew Edgar Hauter.	Alexander Jennings Strom.
Benjamin William Hetherington.	Albert Edgar Taff.
Nels Alfred Larson.	Paul Raymond VanDervort.
Lulu Macintosh Lego.	Robert Russell Ward.
Grace E Martin.	Walter Winslow Williams.

## B.L.S.

Ruth Abbott.	Emma Joanna Hagey, A.B., 1898.
Eugenia Allin.	Edna May Hawley.
Stella Bennett.	Mabel Hayward.
Gertrude Bowman.	Mary Henderson.
Jane Widney Brotherton, B.S., 1899.	Fanny Rebecca Jackson, A.B., 1896.
Anna Lucile Clinton.	Anna Vivian Jennings.
Edna Earle Daniels.	Grace Osgood Kelley.
Genevieve Darlington.	Helen Theresa Kennedy.
Bertha Alma Dodge, A.B., 1901.	Caroline Valeria Langworthy.
Jeanette May Drake.	Emma Grace Lefler.
Willia Kathryn Garver.	Alice Calhoun Man.
Katharine Eaton Gold.	Mary Alice Matthews.
Grace Goodale.	Julia Wright Merrill.

Bertha Thatcher Randall, B.L., Edna Cecilia Vance.  
 1893. Vonie Ames Wiley.  
 Frances Simpson, M.L., 1898. Ralph Cullom Woodmansee.  
 Alta Louise Stansbury. Lynne Griswold Worth.  
 Marietta Louise Street.  
 Anne Davies Swezey.

## A.M.

John Kenyon Bush, A.B., 1900. Chester Ellis Harris, A.B., 1902.  
 Henrietta Anne Calhoun, B.S., Prudence Winter Kofoid, A.B.,  
 1901. 1890.  
 William Crocker, A.B., 1902. Nuba Mitchel Pletcher, A.B.,  
 Exum Woodward Davis, A.B., 1901.  
 1898. Robert Earl Richardson, A.B.,  
 Fred Gates Fox, A.B., 1898. 1901.  
 Belle Irene Gillespie, A.B., 1902. Frank William Scott, A.B., 1901.  
 Roxana Goble, A.B., 1901. Elrick Williams, A.B., 1902.

## M.S.

Ernest William Pouzer, B.S., Curt August Schroeder, B.S.,  
 1900. 1901.

## M.ARCH.

Samuel Alexander Bullard, B.S., Albert Charles Phelps, B.S., 1894.  
 1878.

## PH.D.

Henry Livingston Coar, A.M., William Maurice Dehn, A.M.  
 (*Harvard Univ.*), 1894. (*Hope Coll.*), 1896.

At the commencement of the College of Medicine May 26, 1903,  
 degrees were conferred as follows:

## M.D.

Hicks Lewis Adams, Ph.G. Jacob Lester Barnsback.  
 Maurice Altman. William Truman Barnum.  
 Emil Bernard Anderson. Giovanni Alphonso Barricelli,  
 Norman Edgar Anderson. A.B.  
 Samuel Milligan Anderson, Ph.B. Mrs. Nancy Lee Bechtol.  
 Mary Ella Ash, B.S. Frank Pierce Beck.  
 Mary Brooks Baird, A.B. Viola Bandy Beck.  
 Frank Marion Barker, A.M. Orville Everett Beebe.  
 Charles Edward Barnes. Edith Stockton Birney.

Varillas Cleuthas Birney, Jr.	Clara Fogle.
George Franklin Blough.	Harvey James Forbes.
Charles Norman Bottum, B.S.	William Patrick Forkin.
Alice Barlow Brown.	Lloyd Bartmess Foster.
Thomas Albert Bryan.	Louis Henry Frechtling.
Thomas Ambrose Buchanan.	Edward John Fucik.
Edwin Burchett.	Edward William Gag.
Charles Oliver Burgess.	George Albert Gardner.
Edwin J. Butterfield.	Louis Henry Geiger.
Jessie Drew Carpenter.	Ezra Edward Geisel.
William Francis Casavaw.	Adolph Thomas Gilhas.
Frank H. Clark.	Henry Enoch Goldberger, Ph.G.
Harry Payne Clark.	Julian J. Golembiowski.
William Ross Claybaugh.	Frederick Lantz Gourley.
Charles William Cleveland.	Walter Wood Greaves.
Sylvan Gabriel Cohen.	Martha Anna Haeusler.
Mrs. Metta Viola Collins.	Ollie Ellend Hagen.
Bernard Montrose Conley.	Charlton Edward Hagyard, Ph.G.
Blanche Elizabeth Converse, A.B.	Milton Weston Hall, B.S.
John Harvey Copenhaver.	Calvin Willoughby Harrison,
Ely Rich Crew.	Ph.B.
Henry Thompson Cummings.	William Edward Hart.
Robert Griffin Dakin.	John Eddy Haskell, A.B.
Arthur Valentin De Neveu.	George Merrill Hawkins.
Aria Louis Derdiger.	Joseph William Helz.
Michael Ambrose Desmond.	Meda Hess.
David Chilingworth Dodds, B.S.	Henry Augustin Hewins.
Lucius Boardman Donkle.	Joseph Michael Hilger.
Frederick Rhinhart Dorn.	Edward Marcellus Holmes.
Clarence Hayes Doty.	Philip Henry Holmes.
Clara Dunn.	Jacob Jesse Hood.
Mathew William Dvorak.	Ludwig Frederick Hooge.
Irving Herbert Eddy.	Archie Solomon Horn.
Charles Lloyd Egbert.	Emil Otto Houda.
Richard Leonard Eldredge.	George Herbert Howard.
Ransom Logan Estes.	Lyston Drewette Howe.
Fred Fanyo.	Edward Worthington Jackson.
Louis Walter Fee, B.S.,	Harry Leonard Jacobs.
Emil Otto Ficke.	Ernest Albert Jenkinson.
Oscar Gustav Fischer.	Harriet Belle Jennings.
Frank Christ Fisher.	Ralph Emitte Jennings.

- Anton Byron Jensen.  
 Milton Dana Jewell, B.S.  
 Julius A. Johnson, B.S.  
 Lyford McChesney Johnson.  
 Nellie Bernice Johnson.  
 Margaret May Jones, B.S.  
 Martin Thaddeus Joyce.  
 Bernard Gerson Katz, Ph.C.  
 Albert Theodore Kaupp.  
 Zaroohi Serope Kavaljian.  
 Harry Thomas Kenney.  
 John Herbert Kincaid.  
 Robert Crump King.  
 Elwood Almon Kingston.  
 L. Edgar Klinefelter.  
 Maxmilian Kuznik.  
 James Garfield Lamb.  
 David Ralph Landau, Ph.G.  
 Henry William Lang.  
 Mayer Harris Lebensohn.  
 Edward Franklin Leonard.  
 William Ernest Long.  
 Harry C. McCarthy.  
 Charles Elias McCarty.  
 Michael Edward McGann.  
 Burton Wilson Mack.  
 Neil Munn McNeill.  
 Clarence Lloyd McNett.  
 William Dunn Madden.  
 Bernard Sylvester Maloy.  
 Charles Sylvester Mellen.  
 Helena Bozena Molnar.  
 Ernest Sisson Moore, Ph.D.  
 Will H. Moore.  
 Charles McRae Morgan, A.B.  
 Carleton Spencer Myers.  
 Emanuel Ferdinand Napieraiski.  
 Niels Nicoli John Nielsen.  
 John J. Nowakowski.  
 Marion Michael Null, B.S.  
 Edward James Oberholtzer, Ph.G.
- Julius C. Osher, D.D.S.  
 William Brigham Parkinson, Jr.  
 Edward Patera, Ph.G.  
 Henry Milton Penrice.  
 Charles Eaton Phillips, A.B.  
 William Chambers Phillips, Ph.G.  
 William Aaron Pitzele.  
 Frank Joseph Pokorney, Ph.G.  
 Charles Wallace Poorman.  
 Frank Waldemar Pope.  
 Irving Angel Porges.  
 William H. Porter.  
 Lamar Matthew Power.  
 John William Powers.  
 Charles Wallace Ransom.  
 Matthew Simpson Reay.  
 Ernest Gray Reese, Ph.C.  
 Emory West Reeves.  
 William M. Rightman.  
 Emma Eliza Robbins.  
 Nelson John Robbins.  
 Harry Burton Roberts.  
 Mrs. Esther Annie Ryerson.  
 Helen Louise Ryerson.  
 Lloyde Melville Sackett.  
 Clark Edward Saunders.  
 Norman Lee Seelye.  
 Albert Christian William Seidel.  
 William Arthur Shepherd.  
 Joseph Johnston Sherrill.  
 Leroy Hall Sibley.  
 Charles Watson Snyder.  
 Gertrude Anna Spriggs.  
 Roy Philson Stoops, A.B.  
 Elgin Leroy Stoughton.  
 Julia Clark Strawn.  
 Julius Hilton Sure.  
 Ellis Frank Swarthout.  
 Adam Szwajkart.  
 Frederick Almon Thayer.  
 Benjamin Thomas.

Matilda Minnis Thomas.	Newton Whitney Wear.
Gertrude Frances Thompson.	Blanche Edith Webber.
Laura S. Tomhagen.	Josephine Ella Webster.
Frank Servetus Tufts.	James C. Weld.
Daniel Greenwood Tweedall.	Nels Lawrence Werner.
Eva Prescott Ullman.	Walter Fred Wessels.
Joseph Alfred Uran.	Frank Perrine Whitehill.
Paul Robert Urmston.	Henry Thomas Wichmann.
Harvey Marshal Vance.	Seth Wicks.
Harry Floyd Vaughan.	Charles LaFayette Williams.
Robert Von der Heydt.	Lamont Roy Willson.
Henry McMunn Voris.	James William Wilson.
Mrs. Rosa Vorsanger.	Charles Walter Winn, Ph.C.
Herbert Clarke Waddle.	Verne Ernest Winston.
William Christian Wagner.	Wenzel Matthias Wochos.
John Poler Walsh.	James Manley Wood.
Francois John Theodorus Was.	Thaddeus Z. Xelowski, Ph.G.
Guy Clifford Wauffe.	James Aurelius Young.

*Ad eundem Degree*

John Tascher, M. D., Albuquerque, N. M.  
William M. Thompson, M. D., Chicago.

At the commencement of the School of Pharmacy, April 23, 1903, degrees were conferred as follows:

PH.G.

William Kiliam Ansorge.	Henry Jurgen Huwald Jeronimus.
August Harvey Bauer.	Samuel Vansant Justus.
Carolyn Frances Beardsley.	John Martin Kappus.
Ralph Foster Bogue.	Emil Jan Karlovsky.
Hal Neuton Calhoun.	August John Keopsell.
John Dixson Charters.	Frank William Kraemer.
Sidney Alvaro Denis.	Victor Emanuel Lawrence.
John William Drewitz.	Charles Stephen Marshall.
Cyril John Delbridge.	Frederick Hugo Meyer.
Oscar Albert Fritz.	Carl Frederick Mick.
William G. Hermann Hagemann.	Walter Raymond Montgomery.
Henry Timothy Hatton.	Christ Jensen Orbesen.
Albert Philip Henke.	Lee Murray Pedigo.
Otto Hironimus.	George William Pulford.
Harry Alling Hood.	Joe Griffith Rigg.

George Saxe.  
 Charles Henry Schafer.  
 Michael Albert Sheblessy.  
 Joseph Richard Shinnick.

Henry Edgar Stadelman.  
 Charles Nicholas Storkan.  
 Fritz Voss.  
 Harry Withycombe.

At the commencement of the School of Dentistry, April 30, 1903, degrees were conferred as follows:

## D.D.S.

Lysle Edwin Adams.  
 Conrad Frederick Altenberg.  
 Edward Walter Applegate.  
 Steven Richard Bawden.  
 John Henry Bond.  
 Alfred Alexander Broman.  
 Harry Cadwallader.  
 John Oscar Erlands.  
 Charles Alfred Finley.  
 Leo Gottlieb.  
 Arthur Raymond Greenfield.  
 Oscar Jacob Hammersmith.  
 Edward Alphonso Brackney  
 Hanna.  
 Harlow Henry Hill.  
 Francis Albert Holly.  
 Edward Hulla.  
 Elmer Nichols Johnson.  
 William Henry Karcher.  
 Joseph Daniel McElroy.  
 Alfred Leland Mann.

Tekla Magdalene Maturzynska.  
 James Emmett Monahan.  
 Martin Guy Murray.  
 Alden Richard Newlin.  
 Veo Erwin O'Neil.  
 Seymour Davis Paden.  
 George Fred Palmer.  
 Guy Stanley Peck.  
 William Morton Post.  
 Niels Peter Rasmussen.  
 John Edward Reinhold.  
 Francis John Ryan.  
 James Scott.  
 Thomas Harvey Sprague.  
 Frank Murray Stahl, B.S.  
 Frederick Holstein Swartz.  
 William Frank Taylor.  
 William Henry Taylor.  
 George Horace Wardner.  
 Charles Edward Waterman, Jr.



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Grundy,	Powers, Laurence C.,	<i>Tiskilwa.</i>
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Douglas,	Wyeth, Leonard A.,	Tuscola.
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Fayette,	Wolf, Louis A.,	Farina.
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Hancock,	Bidamon, Chas. A.,	Nauvoo.
Hardin,	Warner, Earl A.,	Marengo.



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Iroquois,	Lindsay, Edward E.,	<i>Onarga.</i>
Iroquois,	Hegnauer, Leonard,	<i>Onarga.</i>
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Jefferson,	Meharry, Charles L.,	<i>Tolono.</i>
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Jo Daviess,	Prickett, Claud E.,	<i>Warren.</i>
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Johnson,	Terrell, Roy W.,	<i>Easton.</i>
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Kankakee,	Harris, Ray W.,	<i>Grant Park.</i>
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Kendall,	Hepburn, Nelson W.,	<i>Genoa.</i>
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Knox,	Holt, Sidney V.,	<i>Oneida.</i>
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Macon,	Brown, Marshall A.,	<i>Decatur.</i>
Macon,	Harrison, Guy R.,	<i>Decatur.</i>
Macoupin,	Long, Roy H.,	<i>Lexington.</i>
Macoupin,	Wright, Carl,	<i>Assumption.</i>
Madison,	Riehl, Anna,	<i>Alton.</i>
Madison,	Pitts, George W.,	<i>McLean.</i>
Madison,	Turner, William H.,	<i>Butler.</i>
Marion,	McLaughlin, Archy H.,	<i>Cartter.</i>
Marshall,	Palmer, Harry R.,	<i>Galva.</i>
Mason,	Ainsworth, Thomas,	<i>Saidora.</i>
Massac,	Timmons, John S.,	<i>Monticello.</i>
Menard,	Culver, Harry W.,	<i>Athens.</i>
Menard,	Melvin, Maurice L.,	<i>Greenfield.</i>
Mercer,	Candor, David B.,	<i>Seaton.</i>
Mercer,	Gustafson, Axel F.,	<i>Aledo.</i>
Monroe,	McCarty, John,	<i>Arcola.</i>
Monroe,	Chester, Edward E.,	<i>Champaign.</i>
Montgomery,	Meharry, Edwin T.,	<i>Tolono.</i>
Montgomery,	Cory, Anna,	<i>Hillsboro.</i>
Morgan,	Joy, Harold P.,	<i>Chapin.</i>
Moultrie,	Cresap, Dwight R.,	<i>Cushman.</i>
Moultrie,	Wiley, Ralph E.,	<i>Sullivan.</i>
Ogle,	Price, Arnold G.,	<i>Oregon.</i>
Ogle,	Gentle, Harry J.,	<i>Farmington.</i>
Peoria,	Stewart, Ralph W.,	<i>Hanna City.</i>
Perry,	Braden, Clarence A.,	<i>Cutler.</i>
Perry,	Qualls, Guy L.,	<i>Murphysboro.</i>
Piatt,	Wise, Leonard E.,	<i>Cerro Gordo.</i>
Piatt,	Salyers, Roland,	<i>Monticello.</i>
Pike,	Berry, Frank S.,	<i>Pleasant Hill.</i>
Pike,	Webster, Geo. H.,	<i>Pleasant Hill.</i>
Pope,	Sherman, Bliss,	<i>Sullivan.</i>
Pope,	Swan, Archie E.,	<i>Waynesville.</i>
Pulaski,	Bronk, Earnest L.,	<i>Plainfield.</i>
Putnam,	Dysart, John P.,	<i>Granville.</i>
Putnam,	Silliman, Minott,	<i>Toulon.</i>
Randolph,	Donovon, Marion A.,	<i>Mason City.</i>
Richland,	Luther, Edward L.,	<i>Geneseo.</i>
Rock Island,	Nichols, John S.,	<i>Hamlet.</i>

Rock Island,	Bracker, Emil M. D.,	<i>Hillsdale.</i>
St. Clair,	Garwood, Frank S.,	<i>Stonington.</i>
St. Clair,	Robison, Frank W.,	<i>Tremont.</i>
St. Clair,	Eldred, John J.,	<i>Thomasville.</i>
Saline,	Smith, Alfred G.,	<i>Hope.</i>
Saline,	Murphy, Jesse T.,	<i>Eldorado.</i>
Sangamon,	Stout, Samuel P.,	<i>Glenarm.</i>
Schuyler,	Bader, Howard O.,	<i>Baders.</i>
Scott,	Anderson, Leslie L.,	<i>Summer Hill.</i>
Scott,	Hopkins, W. Clyde,	<i>Roodhouse.</i>
Shelby,	Reeves, Howell H.,	<i>Champaign.</i>
Stark,	Montooth, James L.,	<i>Toulon.</i>
Stephenson,	Dees, Clyde R.,	<i>Oblong.</i>
Tazewell,	Allen, Paschal,	<i>Delavan.</i>
Tazewell,	Robison, Archie D.,	<i>Pekin.</i>
Union,	Rittenhouse, Joseph W.,	<i>Layton.</i>
Vermilion,	Fairchild, Asa R.,	<i>Snider.</i>
Vermilion,	Bogges, Thomas E.,	<i>Georgetown.</i>
Wabash,	Glassco, Roy T.,	<i>Charleston.</i>
Warren,	Glasgow, Hugh,	<i>Tennessee.</i>
Washington,	Hinkley, George W.,	<i>DuBois.</i>
Washington,	Eldred, William S.,	<i>Thomasville.</i>
Wayne,	Williams, Andrew P.,	<i>Rockford.</i>
Wayne,	Leach, Eustace E.,	<i>Golden Gate.</i>
White,	Brearly, Walter E.,	<i>Rockford.</i>
White,	Jeffery, M. Roy,	<i>Geneseo.</i>
Whiteside,	Meyer, Henry C.,	<i>Wrayville.</i>
Will,	Craig, Stephen J., Jr.,	<i>Wilmington.</i>
Williamson,	Ferrell, Caesar,	<i>Carterville.</i>
Winnebago,	Tulloch, Warren M.,	<i>Rockford.</i>
Winnebago,	Baker, Hugh C.,	<i>Manhattan.</i>
Woodford,	McKee, Russell V.,	<i>Washburn.</i>

SCHOLARSHIPS IN HOUSEHOLD SCIENCE

Bureau,	Powers, Alice,	<i>Tiskilwa.</i>
Champaign,	Barr, Susan J.,	<i>Urbana.</i>
Champaign,	Gilkerson, Portia E.,	<i>Urbana.</i>
Christian,	Logan, Winnie A.,	<i>Edinburg.</i>
Clay,	Logan, Una N.,	<i>Flora.</i>
Coles.	Reat, Ruth,	<i>Charleston.</i>

DeWitt,	Miller, Nellie A.,	<i>Urbana.</i>
Douglas,	Thornton, Sara,	<i>Sadorus.</i>
Effingham,	Reeves, Fanny S.,	<i>Champaign.</i>
Ford,	Manspeaker, Edith,	<i>Champaign.</i>
Grundy,	McCormick, Mary E.,	<i>Verona.</i>
Iroquois,	Freeman, Edna,	<i>Urbana.</i>
Jackson,	Davis, Anna C.,	<i>Carbondale.</i>
Kane,	Newman, Mary E.,	<i>Elgin.</i>
Lake,	Hoagland, Jennie M.,	<i>Elgin.</i>
Livingston,	Lefler, Anna B.,	<i>Pontiac.</i>
Livingston,	Pearson, Ida M.,	<i>Pontiac.</i>
McLean,	McClure, Elizabeth D.,	<i>Bloomington.</i>
Marion,	Neville, Jessie G.,	<i>Kinmundy.</i>
Montgomery,	Cory, Edna E.,	<i>Hillsboro.</i>
Ogle,	Linn, Margaret B.,	<i>Byron.</i>
Piatt,	Miller, Daisy M.,	<i>Urbana.</i>
Piatt,	Busey, Carolyn E.,	<i>Urbana.</i>
Putnam,	Harper, Bertha M.,	<i>Granville.</i>
Stark,	Porter, Katherine B.,	<i>Princeton.</i>
Stephenson,	Hunt, Agnes,	<i>Ridott.</i>
Tazewell,	Foote, Nellie K.,	<i>Delavan.</i>
Vermilion,	Peacock, Lottie B.,	<i>Urbana.</i>
Vermilion,	Hall, Claudia B.,	<i>Hoopeston.</i>
Winnebago,	Wollaver, Jennie E.,	<i>Rockford.</i>

COMMISSIONS AS BREVET CAPTAINS, ILLINOIS  
NATIONAL GUARD, ISSUED BY THE  
GOVERNOR IN 1903

James Franklin Duffy, Jr., Banus Hutson Prater, Fred Wayland  
Rose, Emery Roe Hayhurst, Charles Apple, Clarence Herbert  
Bean, Hammond William Whitsitt, Henry Joseph  
Quayle, James Thomas Atwood, Gustavus  
Adolphus Schmidt, Hugh Mitchel Price,  
Frank Tracy Cavanor, Loring  
Harvey Provine.

Reported to the Adjutant General, United States Army, as distin-  
guished Cadets, for the purpose of having their names published  
in the Register of the United States Army: Edwin Lyon  
Draper, James Franklin Duffy, Jr., Banus Hutson Prater.

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Lieutenant Colonel (Commanding 1st B.)...	F. H. Kneeland.
Major 2nd Battalion.....	C. C. Wiley.
Major 3rd Battalion.....	E. L. Garnett.
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Battalion Adjutant (2nd B.) (1st Lieut.)...	D. H. Brush, Jr.
Battalion Adjutant (3rd B.) (1st Lieut.)....	C. E. Armstrong.
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Color Sergeant.....	J. R. Hamilton.
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Drum Major.....	W. N. McDonald.
Sergeant Major (1st B.).....	V. G. Musselman.
Sergeant Major (2nd B.).....	C. A. Hewes.
Sergeant Major (3rd B.).....	O. S. Watkins.

Company A—Captain, F. S. Hadfield; First Lieutenant, H. M. Roy; Second Lieutenant, G. Hinman; First Sergeant, R. H. Regan; Sergeants, C. E. Little, E. E. Bullard, W. F. Docker, C. M. Page; Corporals, P. Augustinus, A. R. Bench, R. E. Barickman, C. E. Andrews, C. H. Bond, W. E. Brown, J. W. Bard.

Company B—Captain, —————; First Lieutenant, W. W. Clay; Second Lieutenant H. H. Moss; First Sergeant, R. M. Evans; Sergeants, J. R. Clark, D. C. J. Drew, E. W. Sanford, L. V. James; Corporals, O. C. Foster, H. B. Franklin, W. H. Freeburn, F. H. Emerson, H. L. Caldwell, C. C. Carr, W. F. Sudro, P. E. Howe.

Company C—Captain, R. H. Post; First Lieutenant, F. W. Cutler; Second Lieutenant, J. R. Powell; First Sergeant, C. E. Henderson; Sergeants, G. H. Coleman, J. G. Jordan, J. B. Glass, A. H. Gunn; Corporals, A. G. Grandpré, W. J. Galloway, J. L. Hedges, E. B. Hall, H. E. Garwood, G. T. Johnson, F. S. Howard, J. H. Frost.

Company D—Captain, E. C. Conard; First Lieutenant, H. K. Collins; Second Lieutenant, W. N. Spitler; First Sergeant, C. A. Ocock; Sergeants, F. H. Reynolds, J. A. Jarvis, W. H. Roney, C. C. Erickson; Corporals, E. M. Baxter, J. Porter, J. H.

Miner, L. E. Wilkinson, W. L. Pollard, E. S. Meadows, P. L. Parks, W. R. Robinson.

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Company H—Captain, D. A. Baer; First Lieutenant, E. R. Smith; Second Lieutenant, J. M. Bond; First Sergeant, E. L. Stocker; Sergeants, C. L. Hickling, J. L. Bannon, R. M. Pray, C. C. Garm; Corporals, F. E. Dougherty, M. D. Funk, H. W. Hachmeister, F. A. Hegenbart, S. E. Washburne, J. B. Freeman, L. J. Butzow.

Company I—Captain, G. B. Clark; First Lieutenant, J. E. Dunn; Second Lieutenant, W. R. Martin; First Sergeant, W. H. Rothgeb; Sergeants, G. F. Bridge, G. S. Pope, R. N. Smith, D. D. Williams; Corporals, G. B. Herman, C. L. Martin, R. H. Kimball, C. C. Logan, R. H. Long, C. L. Moore.

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Battery—Captain, N. D. Gaston; First Lieutenant, J. D. Blocker; Second Lieutenant, D. E. Mather; First Sergeant, F. Slocum; Sergeants, C. L. Holl, L. E. Wise, G. T. Donoghue, R. D. Kunkle.

Military Band—Sergeants, C. L. Ginsel, A. A. Harding.

## ROSTER

WINNING ORGANIZATIONS—ANNUAL COMPETITIVE  
DRILL

## INDIVIDUAL

Hazelton Gold Medal.  
Corporal Walter John Kanne, Company "F."

## ARTILLERY

University Bronze Medals.

## GUN DETACHMENT

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Gunner J. D. Blocker.  
Cadet Private H. Johnson.  
Cadet Private W. Chadwick.  
Cadet Private R. B. Orndorf.  
Cadet Private T. D. Casserly.  
Cadet Private H. H. Hook.  
Cadet Private J. W. Pearson.  
Cadet Private I. Kornblum.

## INFANTRY

University Bronze Medals.

## COMPANY COMPETITIVE

Company "F," University Regiment.  
Captain G. A. Schmidt.  
First Lieutenant J. H. Galeener.      Second Lieutenant C. W. Rich.  
First Sergeant W. H. Eiker.

## SERGEANTS

W. W. Clay, C. L. Camp, E. R. Smith, J. R. Powell.

## CORPORALS

A. Gore, W. J. Healey, E. A. Renick, A. F. Triebel.

## LANCE CORPORALS

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D. A. Graham, E. L. Stocker, C. R. Schulte.  
R. M. Evans, G. F. Bridge.

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C. M. App.	R. B. Dool.	E. T. Mather.
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A. E. Davis.	D. R. Lehman.	S. H. Weinberger.
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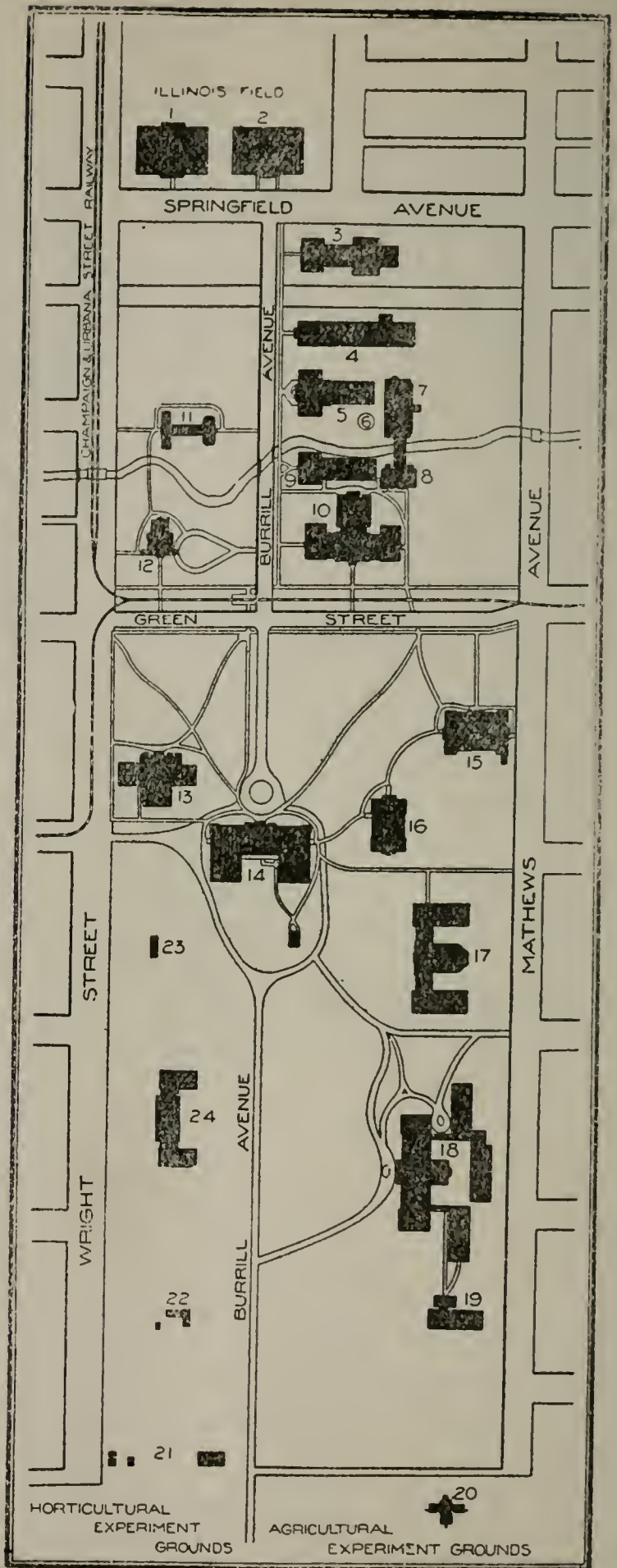
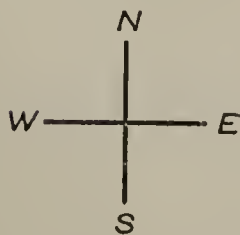
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1. Men's Gymnasium.
2. Armory.
3. Wood Shop.
4. Metal Shops.
5. Electrical and Mechanical Laboratory.
6. Reservoir.
7. Heating Plant.
8. Pumping Plant.
9. Laboratory of Applied Mechanics.
10. Engineering Hall.
11. Greenhouse.
12. President's House.
13. Library.
14. University Hall.
15. Natural History Hall.
16. College of Law.
17. Chemical Laboratory.
18. Agricultural Buildings.
19. Greenhouse.
20. Observatory.
21. Warehouse.
22. Veterinary Building.
- Insectary.
- Woman's Building.



UNIVERSITY GROUNDS AND BUILDINGS

# UNIVERSITY OF ILLINOIS ALUMNI RECORD

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TECHNOLOGICAL, SCIENTIFIC, AGRICULTURAL, LIT-  
ERARY, LIBRARY, AND LAW DEPART-  
MENTS, 1872-1903

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COLLEGE OF PHYSICIANS AND SURGEONS OF  
CHICAGO, 1883-1897

COLLEGE OF MEDICINE OF THE UNIVERSITY OF  
ILLINOIS, 1898-1903

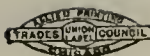
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CHICAGO COLLEGE OF PHARMACY, 1861-1897  
UNIVERSITY OF ILLINOIS SCHOOL OF PHARMACY,  
1897-1903

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ILLINOIS SCHOOL OF DENTISTRY, 1899-1901  
UNIVERSITY OF ILLINOIS COLLEGE OF DENTISTRY.  
1902-1903

URBANA, ILLINOIS, APRIL 15, 1904  
PUBLISHED BY THE UNIVERSITY

HACK & ANDERSON  PRINTERS, CHICAGO



## PROGRESS AT THE UNIVERSITY

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That the University of Illinois is not marking time, a few facts will clearly demonstrate.

In 1901-'2, the whole number of students was 2,932; in 1902-'3, 3,288; in 1903-'4, the number is 3,593. During these three years there have been no additions to numbers by affiliation with schools or colleges already organized.

The increase in the numbers enrolled in classes is large, as a few selections will show:

REGISTRATION IN CLASSES

Classes in—	1901-'2	1902-'3	1903-'4
Botany .....	103	133	142
Chemistry .....	288	372	402
Economics .....	134	160	343
English .....	256	340	390
French .....	249	275	284
German .....	354	447	547
History .....	230	289	348
Household Science .....	37	54	101
Mathematics .....	580	730	818
Music .....	192	230	302
Philosophy .....	116	126	148
Physics .....	219	238	284
Rhetoric .....	454	617	790

So also is the increase in many courses leading to degrees.

## REGISTRATION IN COURSES

Courses in—	1901-'2	1902-'3	1903-'4
Agriculture .....	205	238	289
Architecture .....	62	84	107
Civil Engineering .....	172	206	283
Electrical Engineering .....	109	137	176
Mechanical Engineering .....	135	192	235
Law .....	114	110	142
Library Science .....	67	84	82
Medicine .....	708	689	694
Pharmacy .....	154	168	185

The number of degrees conferred in 1902 was 504; in 1903, 530; this year it will be about 650, or nearly as many as there were graduates from the University in the first twenty classes.

The appropriations of state funds made by the General Assembly of 1901 were, in round numbers, \$880,000.00. The appropriations by the General Assembly of 1903 were \$1,235,000.00. The appropriations made in 1901 included these large items:

For current expenses.....	\$350,000.00
For the Library.....	20,000.00
For the department of Economics and Business Training .....	12,000.00
For the College of Engineering.....	20,000.00
For a water plant.....	10,000.00
For a chemical laboratory.....	100,000.00
For fitting up for the College of Law the old chemical laboratory .....	8,500.00
For experimental work by the College of Agri- culture .....	108,000.00
For a men's gymnasium, a wood shop, and a lab- oratory of applied mechanics.....	91,000.00

The appropriations of 1903 included:

For current expenses.....	\$500,000.00
For apparatus and furniture in the Chemical Laboratory .....	10,000.00
For the Library.....	40,000.00
For the department of economics and business....	14,400.00
For the College of Engineering.....	150,000.00
For the College of Agriculture and its experimental work .....	270,000.00
For a Woman's building.....	80,000.00

With the exception of the last named, the specific appropriations for buildings have been used, and the sites of all are indicated on the diagram of the campus, which faces the title page.

The Woman's Building (the site is shown on the diagram and a cut faces p. 11) is to be in pure New England colonial style of architecture, and will be made of reddish brown brick with white stone trimmings. The central part of the structure will be given to athletics. There will be a gymnasium 92x50 feet, a large swimming tank, and abundant provision for lockers, dressing rooms, and baths. The north wing of the building will be given to the department of household economics, and the south wing will provide rooms for the social life of the women students.

The Agricultural College is putting up for instructional and experimental purposes three large buildings, which will be ready for use next September.

The College of Engineering, besides increasing its equipment in all departments—especially in applied mechanics—will build a new foundry, a steam engineering laboratory, and enlarge the machine shop.

The courses in training for business are proving attractive. The very considerable increase in the classes in economics is largely due to the promptness with which

the University has prepared to meet the growing demand for the college man in business.

While the greatest expansion in the University has been along the lines to which reference has been made, there has been a general uplift which implies a healthy growth. Much has been done, but what has been done has opened up the way to greater things. The University looks confidently to its Alumni for intelligent appreciation, hearty encouragement, and constant support.

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It is very desirable that the Alumni report changes of residence and of occupation, and other matters of interest:

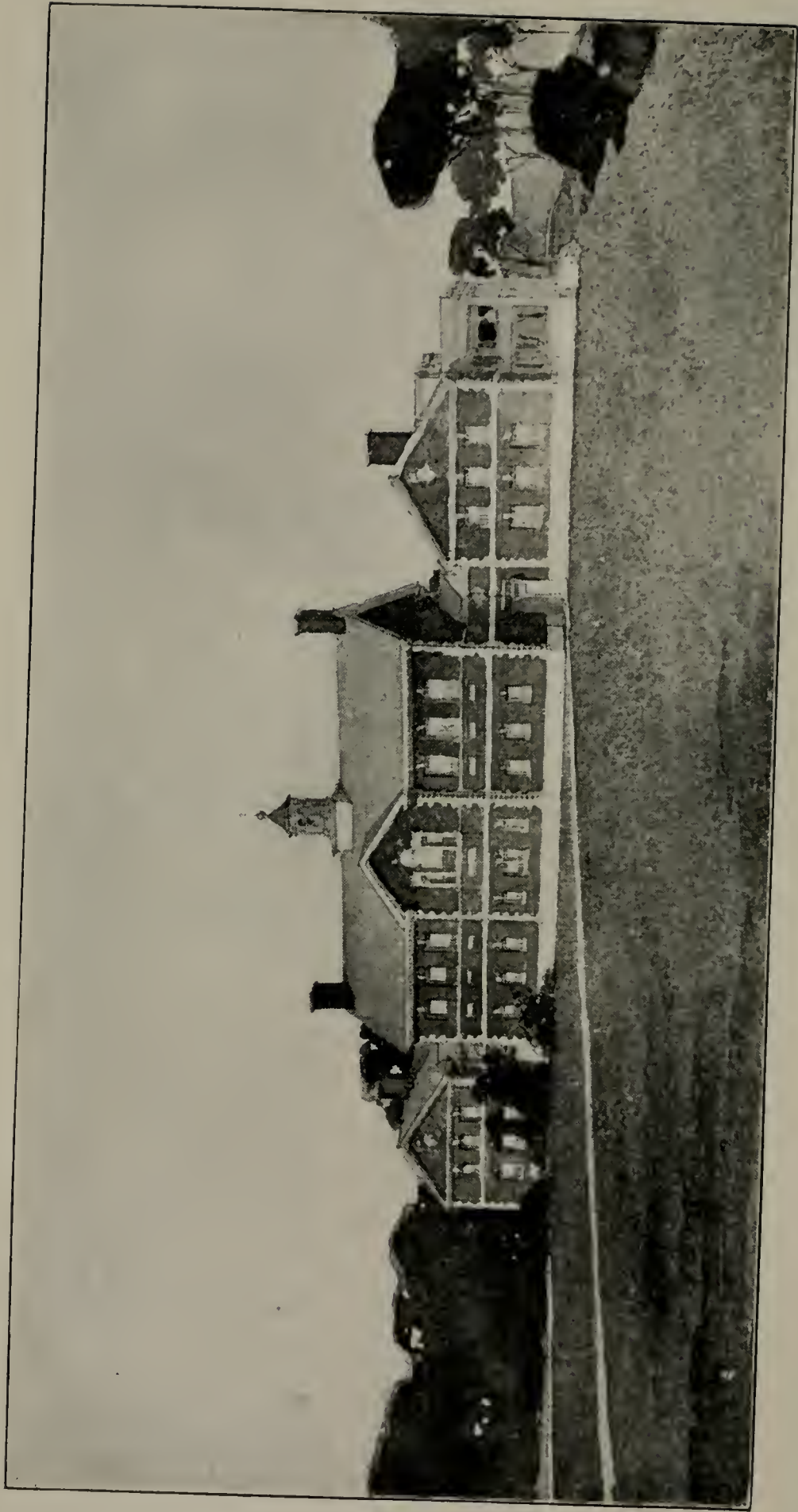
Graduates of the School of Pharmacy to Professor W. B. Day, Secretary, 465 State St., Chicago.

Graduates of the College of Medicine to Dr. F. B. Earle, Secretary, Corner Congress and Honore Streets, Chicago.

Graduates of the College of Dentistry to Dr. B. J. Cigrand, Secretary, Corner Congress and Honore Streets, Chicago.

Graduates of the schools and colleges at Urbana to W. L. Pillsbury, Registrar, Urbana.





WOMAN'S BUILDING—WEST FRONT

# UNIVERSITY OF ILLINOIS

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## ALUMNI OF TECHNOLOGICAL, SCIENTIFIC, AGRICULTURAL, LITERARY, LIBRARY, AND LAW DEPARTMENTS

[A second address in parenthesis is a business address.]

### CLASS OF 1872

- Burwash, Milo Benedict, M.S., Farmer, 833 W. Church St., Champaign.
- Davis, John Jefferson, B.S., M.D., Physician, 1119 College Ave., Racine, Wis. (504 Monument Square.)
- Drewry, Henry N., B.S., M.D., Physician, Welton.
- Flagg, Albert Murray, Capt.
- Hatch, Miles Fayette, M.S., Breeder of Guernsey Cattle, Dairyman, Prune Grower and Packer, Burton, Wash.
- Lyman, George Henry, Sec'y. and Treas. Lyman Abstract Co., 316 N. Sixth St., Ft. Smith, Ark. (9 N. Sixth St.)
- Matthews, James Newton, M.L., M.D., Physician, Mason.
- Parker, Calvin Ebenezer, M.D., 512-522 S. Hill St., Los Angeles, Cal.
- Raymond, Isaac Stuart, M.L., Farmer, Rural Route No. 58, Sidney.
- Reiss, Willie Albert, M.S., Civil Engineer, 200 Portland Ave., Belleville.
- \*Reynolds, Stephen Avery, M.L., Capt. Died at Elgin, Aug. 13, 1899.
- Rickard, Thomas Edwin, M.L., Fruit Inspector, Station A, box 2065, Pasadena, Cal.
- Ricker, Nathan Clifford, D.Arch., Dean College of Engineering, Professor of Architecture, Univ. of Ill., 612 W. Green St., Urbana.
- Rolfe, Charles Wesley, M.S., Professor of Geology, Univ. of Ill., 601 E. St. John St., Champaign.

Silver, Charles Wallace, M.L., President The Silver & Son Co., 905 W. Green St., Urbana. (P. O. box 465, Columbus, O.)

Silver, Howard, M.L., Mngr. Field Agent's American Literary and Musical Ass'n.

\*Teeple, Jared, died at Marengo, April 2, 1888.

Wharton, Jacob Norton, B.S., P. O. Clerk, Douglas Park, Chicago.

Whitcomb, Alonzo Lyons, M.L., M.D., Physician, 1091 Fauquier St., St. Paul, Minn. (971 E. Seventh St.)

Wood, Reuben Oscar, B.S., Capt., Farmer, Woodburn.

#### CLASS OF 1873

Graham, Rev. Charles Peyton, M.L., Clergyman, Kipp, Kas.

Hatch, Frederic Lewis, M.S., Farmer, Spring Grove.

Hays, Charles Irving, M.S., Instructor in Science, N. Denver High School, 22 Lincoln Ave., Denver, Colo.

Hennesey, Augustus L., Printing, 1067 Argyle St., Chicago.

Hill, Edgar Lewis, B.S., Capt., Superintendent of Schools, 16th Dist. of Puerto Rico, Orange Grower and Shipper, Rio Piedras, Puerto Rico.

Hook, Samuel Houston, B.L., California.

Morrow, Andrew, T., C.E., Civil Engineer with Mississippi River Commission, 384 S. Leavitt St., Chicago. (1115 Fullerton Bldg., St. Louis, Mo.)

Ockerson, John Augustus, D.Eng., Chief of Department of Liberal Arts, Louisiana Purchase Exposition, 4217 Washington Blvd., St. Louis, Mo. (1119 Fullerton Bldg.)

Phillips, Parley Agrippa, M.L., Agriculture and Horticulture, Madison Station, Miss.

Platt, Franklin Carpenter, M.L., LL.B., Judge District Court, 10th Judicial District, Ia., 515 E. Third St., Waterloo, Ia. (Logan House Blk.)

Porterfield, Elijah Neulan, C.E., Real Estate and Financial Agent, Cor. 6th Ave. and 23rd St., Kearney, Neb. (2300 Central Ave., 2nd floor.)

\*Robbins, Henry Edwin, M.S., died at Chicago, Feb. 6, 1899.

Swartz, Alexander Culbertson, C.E., Civil Engineer and Architect, Fresno, Cal. (Rooms 19-21 Fiske Blk.)

Williams, Louis Edward, M.S., LL.B., Lawyer, Real Estate, Loans and Insurance, 119 N. Fifth St., Keokuk, Ia.



## CLASS OF 1874

- Baker, Ira Osborne, D.Eng., Professor of Civil Engineering, Univ. of Ill., 702 W. University Ave., Champaign.
- Campbell, John P., M.L., M.D., Physician, Winchester.
- Cheever, Alice, M.L., Mrs. A. H. Bryan, 401 W. University Ave., Champaign.
- Dabriskian, Gregory Gabriel, B.S., Farmer, Backjajack, Turkey.
- Drury, Ebenezer Lewis, M.L., County Judge, Chamberlain, S. Dak.
- Eaton, Herbert, B.S., Farmer, Rural Route No. 58, Sidney.
- \*Ells, William C., C.E., died Feb. 26, 1896, at Kansas City, Mo.
- Estep, Harvey C., C.E., Principal Ass't Engineer, M. & St. L. R. R., care Chief Engineer, M. & St. L. R. R., Minneapolis, Minn.
- Foster, Charles William, Lecture Recitals and Instructor on Violin, 607 W. Healy St., Champaign.
- Gennadius, Panagiottis, B.S., Director of Agriculture, Nicosia, Cyprus.
- Jeffers, Charles Perry, M.S., Pharmacist, Swampscott, Mass. (164 Humphrey St.)
- Pickrell, William S., Ostrich Farming, Phoenix, Ariz.
- Pierce, John Larke, A.B., Deputy, State Ins. Dep't., 549 S. 17th St., Lincoln, Neb. (Capitol Bldg.)
- Potter, Frances Adelia, B.L., Mrs. H. S. Reynolds, Author, 60 Evergreen St., Providence, R. I.
- Reynolds, Henry Sheldon, M.S., Ph.D., Scientist, Student and Teacher, 60 Evergreen St., Providence, R. I.
- Smith, Charles Augustus, B.S., Draughtsman, 243 Broad St., Central Falls, R. I. (With E. Jenckes Mfg. Co., Pawtucket, R. I.)
- Story, George, C.E., City Engineer, San Luis Obispo, Cal. (Room 9 Sinsheimer Bldg.)
- Watts, William, B.S., M.D., Physician and Surgeon, 1035 Superior St., Toledo, Ohio. (339 Huron St.)
- \*Wharry, Walter Ward, B.S., died at Sycamore, June 28, 1896.

## CLASS OF 1875

- Anderson, Laura Morris, B. L., Mrs. J. R. Greenhalgh, 197 Jefferson St., Oak Cliffe, Tex.
- Barnard, DeLonson Elroy, B.S., Mechanical Engineer, 399 S. Leavitt St., Chicago.
- Barnes, Arthur Ellis, B.S., Secretary and General Manager, Tonopah Reduction Co., 902 DeKalb St., Norristown, Pa. (Tonopah, Nev.)

- Brown, Dillon Sidney, M.S., Banker, Genoa.
- Brown, Ralph Lee., M.L., Real Estate, Aberdeen, S. Dak.
- Campbell, Amanda, M.L., Mrs. Milton Moore, Clinton.
- Coddington, Vantile William, B.S., Bridge Engineer, North Milwaukee, Wis.
- Dobson, Franklin Pierce, B.S., Capt., Civil Engineer, 6430 Monroe Ave., Chicago.
- Dunlap, Burleigh Arthur, B.S., Lawyer, 810 Seventh Ave., Maywood. (163 Randolph St., Chicago.)
- Dunlap, Henry M., M.S., Farmer and State Senator, Savoy.
- \*Eaton, Ernest, B.S., died at Downs, Oklahoma, April 20, 1900.
- \*Everhart, Winfield Scott, M.L., died at Toledo, Aug. 2, 1899.
- \*Faulkner, James, Capt., died at Bloomfield, October 1, 1882.
- Gridley, George N. B.S., 974 Cuyler Ave., Chicago.
- Hullinger, Kate, Mrs. Kate Sterling, Principal of Schools, Poulsbo, Wash.
- Kariher, Israella Kate, B.L., Mrs. Albert Eisner, 301 W. University Ave., Champaign.
- Kellogg, Flora Lorena, B.L., Mrs. H. E. Hudson, Dougherty, Ia.
- Kenower, George Frederic, M.L., Editor *Wisner Chronicle*, Regent Univ. of Neb., Wisner, Neb.
- Lee, Alice, B.L., Mrs. V. W. Coddington, North Milwaukee, Wis.
- Leflar, John Emerson.
- Lyford, Charles Chamberlain, B.S., M.D., D.V.S., Veterinarian, 817 Third Ave., South, Minneapolis, Minn.
- McCauley, John Charles, B.L., Teacher, Defiance, Ohio.
- Mueller, John, B.S., M.D., Medical and Literary Work, Besigheim, Wurtemberg, Germany. (Via Agnello 3, Milan, Italy.)
- Parks, James Harvey, B.S., Civil and Mining Engineer, U. S. Deputy Mineral Surveyor, 147 West St., Cripple Creek, Colo. (4 Pittsburg Blk.)
- Parsons, Fernando Alston, M.L., Loans and Real Estate, 819 Wabash Ave., Kansas City, Mo. (Chanute, Kas.)
- Patch, Emory Edward, B. S., 255 Glenn St., Janesville, Wis.
- Pickrell, Watson, M.S., Farmer, Tempe, Ariz.
- Pierce, Fanny, 549 S. 17th St., Lincoln, Neb.
- Pollock, William Clarence, B.S., Assistant Attorney Interior Department, 1819 Q St. N. W., Washington, D. C. (Interior Department.)
- Robinson, Elna Alphonso, M.E., Plumbing and Heating, 112 W. Hill St., Champaign. (Neil and Hickory Sts.)

- Scovell, Melville Amasa, M.S., Director and Chemist of Kentucky Agricultural Expt. Station and State Chemist, Lexington, Ky.
- Scudder, Clarence Orlando, M.L., Principal of School, 1691 Barry Ave., Chicago. (Robert Morris School.)
- Shawhan, George Robert, B.L., Ass't. Cashier, Title & Trust Co. Bank, 807 S. Wright St., Champaign. (10 Main St.)
- Steele, Mary Carter, B.L., Mrs. N. C. Ricker, 612 W. Green St., Urbana.
- Stewart, Margaret Esther, M.L., Mrs. H. E. Robbins, Teacher Mills College, Mills College, Cal.
- Tyndale, Hector Hilgard, B.L., B.S., LL.B., Lawyer, 47 West 43d St., New York City. (49 Wall St.)
- Warner, Lyman Fenn, Jr., Civil and Hydraulic Engineer, Auburn, Cal.

## CLASS OF 1876

- Allen, Ralph, M.S., Farmer, Delavan.
- Ballou, Edward Lull, B.S., Mine and Mill Superintendent, Igo, Cal.
- \*Campbell, James William, died at Los Gatos, Cal., Jan. 22, 1890.
- Chandler, William Bayard, B.S., Farmer and Lawyer, Bourbon.
- Clark, Charles Wright, C.E., Architect and U. S. Assistant Engineer, Webster Groves, Mo. (U. S. Trust Bldg., St. Louis, Mo.)
- Drake, James Frederick, B.L., LL.B., Lawyer, Pueblo, Colo. 120 Central Blk.
- Gill, John David, B.L., Lawyer, 413-59 Dearborn St., Chicago.
- Gore, Simeon Thomas, B.S., Farmer, Weston, Ore.
- Gregory, Charles Edwin, B.L., LL.B., Capt., Lawyer, Dickinson, N. Dak.
- Holton, Mattie Gray, B.L., Mrs. J. H. Krebs, 3029 Groveland Ave., Chicago.
- Knibloe, Walter Elliott, M.S., Principal and Professor of Natural Sciences, Duval High School, Jacksonville, Fla. (925 Oak St.)
- Mackay, Daniel Stottenkirk, B.L., Farming and Banking, Mt. Carroll.
- Mackay, Henry, M.L., Lawyer, Mt. Carroll.
- Mackay, William Alexander, B.L., Capt., President Banking House Mackay Brothers, Madison, S. Dak.
- Mahan, Henry Weston, M.L., President Drexel State Bank of Chicago, 4543 Greenwood Ave., Chicago.
- Mann, Frank Irving, B.L., Capt., Farmer, Gilman.
- \*Mann, Howard, died at Winnebago, Cal., April 23, 1876.

- Mann, James Robert, M.L., LL.D., Capt., Lawyer, M.C., 2nd District, Hyde Park Hotel. (906 Ashland Blk.)
- Noble, Louis Reeder, B.S., Capt., Insurance, Spitler, Noble & Co., 2708 Western Ave., and Special Agent and Adjuster for Phoenix Assurance Co. of London, Mattoon. (1710 Broadway.)
- Oliver, William Forrest, B.L., M.D., Capt., Physician, Arlington, Wash.
- Palmer, Frank Mitchell, B.L., Capt., Lawyer, Clinton.
- Pierce, Elon Albert, Editor *Belmond Herald*, Belmond, Ia.
- Rhodes, James Frederic, B.L., Lawyer, El Dorado Springs, Mo.
- \*Scribner, Artemus C., died at Fairplay, Colo., April 24, 1891.
- Starr, Frank Augustus Ellis, M.L., Capt., Lawyer, Sumpter, Ore.
- Weston, Charles, B.L., State Auditor, Lincoln, Neb.
- \*Wild, George A., died at Las Animas, Colo.; November, 1880.
- Williams, Thomas Thatcher, B.L., Farmer, Sterling.
- Wood, Frederick L., California.

#### CLASS OF 1877

- Abbott, Theodore Sperry, B.S., Chief Engineer, Coahuila & Zacatecas R. R., and State Engineer for Coahuila, Saltillo, Coahuila, Mexico.
- Adams, Nettie, B.L., Mrs. W. Bent Wilson, Lafayette, Ind.
- \*Allen, Charles W., B.L., died at Harristown, July 8, 1880.
- Barry, Charles Hart, B.S., Capt., Insurance Manager, 1225 Forest Ave., Evanston. (200-8 The Temple, Chicago.)
- Barry, Frank, B.L., Commissioner Nat'l B'd of Trade, Washington, D. C. (P. O. box 290.)
- Blackall, Clarence Howard, M.Arch., Capt., Architect, Cambridge, Mass. (1 Somerset St., Boston.)
- Bogardus, Eva., B.L., Mrs. T. L. Price, Baldwin, Long Island, N. Y.
- Broshar, Cornelia, Artist, 103 N. Prospect Ave., Champaign.
- Brush, Charles Eliphalet, B.S., Architect, 414 36th Pl., Chicago. (23-24 Borden Blk.)
- Buckingham, William, B.S., LL.B., Los Angeles, Cal. (care Fairbanks, Morse & Co.)
- Bumstead, James Edward, M.S., M.D., Physician and Surgeon, Dundee.
- \*Clay, Luther G., B.S., died at Chicago, June 13, 1898.
- Crow, Benjamin Franklin, B.S., Horticulture, Cider Place, Keokuk, Ia.

- Elliott, Charles Gleason, C.E., Expert in Drainage, Office of Exp't Stations, Dept. of Agriculture, Washington, D. C.
- Falls, Ida Belle, B.L., 806 S. 6th St., Champaign.
- Faulkner, Richard Douglas, B.L., Principal Franklin Grammar School, 8th St., near Harrison, San Francisco, Cal.
- Gibson, Charles Brockway, B.S., M.D., Capt., Analyst and Consulting Chemist and Mining Engineer, 1760 Arlington Place, Chicago. (81 Clark St.)
- Gilkerson, Hiram, B.S., Capt., Farmer, 1105 W. California Ave., Urbana.
- Gilkerson, John, B.S., 402 Fulton St., Chicago.
- Gregory, Helen Barber, A.B., Artist, Rome, Italy.
- Kennedy, Allan Gilmour, B.S., Capt., Chief Engineer, S. Fe Cent. R. R. Co., Santa Fe, N. Mex.
- Lewis, Edward Vernon, B.S., Capt., Wholesale Pump and Steam Supplies, Omaha, Neb. (1014-16 Douglas St.)
- Llewellyn, Joseph Corson, M.S., Architect, 324 Sixth Ave., La-Grange. (1218 Association Bldg., 153 La Salle St., Chicago.)
- \*McPherson, John, died at Lexington, Ky., Jan. 26, 1886.
- Maxwell, Emily C., B.L., 2016 Bellevue St., Tioga, Philadelphia, Pa.
- Moore, John Fremont, B.S., Architectural Draughtsman, Dubuque, Ia. (17 Lincoln Bldg.)
- Page, Martha, B.L., Mrs. R. F. Whitham, 2303 E. Denny Way, Seattle, Wash.
- Piatt, Emma Clarinda, B.L., Mrs. J. C. Llewellyn, 324 Sixth Ave., La Grange.
- Rice, George Clark, B.L., died at Oakwood, Aug. 29, 1902.
- Seymour, John James, B.S., General Engineer and Contractor, 1419 L St., Fresno, Cal.
- Sim, Coler Lindley, B.S., Capt., Banker, 1065 Emporia Ave., Wichita, Kas. (107 Main St.)
- Skinner, Velma Elethea, M. L., Mrs. Velma Skinner Ward, Teacher of Domestic Art, Champaign.
- Smith, Avis E., M.S., M.D., Physician, 608 E. 9th St., Kansas City, Mo. (400 University Bldg.)
- Spence, Franklin, B.S., 603 S. Wright St., Champaign.
- Stayman, John Mather, B.L., 1424 Eastwood Ave., Chicago.
- Stoddard, Ira Joy, Jr., Capt., Civil Engineer, Pella, Ia.
- \*Victor, Carrie D., Mrs. Ira J. Stoddard, died in Chicago, April 19, 1894.

- Switzer, Gertrude, B.L., Mrs. H. Peddicord, 602 W. Hill St.,  
Champaign.
- Ward, Walter P., B.L., Farmer, Erich, Okla.
- Whitham, Robert Farwell, Capt., Civil Engineer and U. S. Deputy  
Mineral Surveyor, 2303 E. Denny Way, Seattle, Wash. (116  
Marion St.)
- Wright, Myron Jerome, B.S., Farmer, Woodstock.

#### CLASS OF 1878

- Baker, Edward J., B.S., Real Estate and Loans, 602 John St., Cham-  
paign.
- \*Ballard, Charles K., B.S., died March 3, 1895, at Oak Park.
- \*Bridge, Wallace Everett, B.S., Capt., died at Detroit, Mich., March  
18, 1899.
- Brown, Frank Adelbert, Real Estate, Aberdeen, S. Dak.
- Bullard, Samuel Alexander, M.Arch., Architect, 318 S. Glenwood  
Ave., Springfield. (208 S. Sixth St.)
- Burr, Ellis M., B.S., Founder and Machinist, 306 Washington St.,  
Champaign. (Neil and Hickory Sts.)
- Coffman, Noah Beery, B.S., Manager, Coffman, Dobson & Co.,  
Bankers, Chehalis, Wash.
- Coflin, Frank Sherman, Principal of High School, Quitman, Miss.
- Columbia, Emma, Mrs. J. R. Mann, Hyde Park Hotel, Chicago.
- Culver, Annette M., B.L., Mrs. A. C. Ellison, Children's Librarian,  
Minneapolis, Minn. (Public Library.)
- Davis, Nancy, B.S., Mrs. M. A. Scovell, Lexington, Ky.
- Dean, Frank A., Capt., Merchant, Holdrege, Neb.
- Deardorff, Sarah Catherine, B.S., Mrs. B. F. Donnell, Teacher, Ash-  
land, Kas.
- \*Estep, Ida May, died at Rantoul, January 25, 1887.
- Estep, Jessie, Christian Science Practitioner, Flat A, The Yale, 601  
Columbia St., Seattle, Wash.
- Francis, Frederick, Kewanee.
- Gaffner, Theophilus, Physician, Trenton.
- Gregory, Alfred, A.B., Capt., Lawyer, Beardsley, Gregory & Kirsh-  
ner, Kansas City, Mo. (Water Works Bldg.)
- Hauser, Henry, Railroad Contractor, Los Angeles, Cal.
- Larned, Mary Sofrona, Mrs. F. A. Parsons, 819 Wabash Ave, Kan-  
sas City, Mo.
- Lee, Eddy Orland, B.L., Lawyer, firm of Booth, Lee & Ritchie, Salt  
Lake City, Utah. (500-504 Auerbach Blk.)

- Lloyde, Frank Hayden, Music and Books, 306 W. Clark St., Champaign. (D. H. Lloyde & Son, 7 Main St.)
- McLane, James Adrian, B.S., Real Estate Agent, 408 36th Pl., Chicago. (Room 902-100 Washington St.)
- Mahan, Jennie C., Mrs. P. W. Plank, 1660 Gaylord St., Denver, Colo.
- Moore, Aaron Henry, Retail Lumber, Louisville. (Wabash Lumber Yards.)
- Morava, Wensel, B.S., Capt., President Morava Construction Co., 5621 Monroe Ave., Chicago. (1245 Marquette Bldg., or 85th St. and Stewart Ave.)
- Page, Emma Elizabeth, M.L., W. C. T. U. Nat'l. Lecturer, Olympia, Wash.
- Page, Mary L., B.S., Teacher, Olympia, Wash.
- Patchin, John Wakeley, LL.B., Lawyer, Traverse City, Mich.
- Pollock, James Lyon, B.L., Lawyer, Mt. Vernon.
- Richards, Charles Laurens, B.S., LL.B., Lawyer, Hebron, Neb.
- \*Rudy, William Dole, B.S., died at Washington, D. C., July 16, 1899.
- \*Rutan, Abram R., died at Ranton, New Mexico, June 4, 1887.
- Savage, Manford, B.L., Lawyer, 722 W. Church St., Champaign. (16 Main St.)
- Sawyer, Hamlin Whitmore, Capt., *Oklahoma Illustrated Review*, Enid, Okla.
- Sparks, Hosea B., Capt., Flour Milling, Sec'y. Sparks Milling Co., Alton.
- \*Spradling, William F., died at Greenleaf, Nov. 30, 1881.
- Sprague, Martin, Manager Horse Shoe Exploration and Mining Co., Sahuaripa, Mex., Sonora, Mex.
- Weed, Mahlon Ogden, B.S., Farmer, Alvo, Neb.
- Whitlock, John Franklin, B.S., Capt., Lawyer, Gettysburg, S. Dak.
- Ziesing, August B.S., Capt., Western Manager American Bridge Co., Glencoe. (1315 Monadnock Blk., Chicago.)
- \*Zimmerman, Henry W., B.L., died at Peru, July 21, 1903.

#### CLASS OF 1879

- Beardsley, Henry Mahan, M.L., Lawyer, Beardsley, Gregory & Kirshner, 3621 Walnut St., Kansas City, Mo. (Water Works Bldg.)
- \*Bourne, Henry Peter, died at Woodstock, December 11, 1899.
- Butler, William Nichols, LL.B., Circuit Judge, Cairo. (612 Commercial Ave.)

- Butts, Augusta Esther, B.S., Principal of Chase School, 827 Congress St., Chicago.
- \*Coburn, Ralph P., B.S., died at San Antonio, Tex., January 10, 1894.
- Freijs, Charles Theodore, Architect, Indianapolis, Ind. (Rooms 52-53 152 E. Market St.)
- Gunder, James, B.S., Vice Pres. and Gen. Mgr., Cohocton Brick & Tile Co., Forest City, Ark.
- Hale, Isabella, B.S., District Supt. Bureau of Charities, 1714 E. Ravenswood Park, Chicago.
- Hoit, Otis Willis, Farmer, Geneseo.
- Johnson, William Pitt, Capt., with The Albert Dickinson Co., 208 Pine St., South, Lansing, Mich.
- Kays, Emery, Secretary and Manager Maricopa Creamery Co., Phoenix, Ariz.
- \*Kimberlin, Nettie Dousman, died at Milwaukee, Wis., Jan. 19, 1904.
- Kimble, Willis Prentice, B.S., Division Engineer, Cincinnati Division Erie R. R., Galion, Ohio.
- \*Kuhn, Isaac, B.S., died at San Diego, Cal., Feb. 20, 1899.
- Lee, Elisha, B.S., Farmer, R. F. D. 5, Aledo.
- McAllister, Minnette Cleora, B.L., Mrs. J. H. Miller, Co. Supt. of Schools, Big Lake, Minn.
- \*Milton, Franklin Silas, B.S., died at Platteville, Colo., July 22, 1892.
- Stanton, Samuel Cecil, B.S., M.D., Capt., Physician and Surgeon, 1040 Sheridan Road, Chicago. (1604 Masonic Temple.)
- Swannell, Arthur, Capt., Dry Goods Merchant, Kankakee.
- Taft, Lorado, M.L., Sculptor, 6008 Jefferson Ave., Chicago. (Fine Arts Bldg.)
- Thompson, William Augustus, B.S., Capt., Broker, Riverside.
- Walker, Francis Eugene, Capt., Principal Spring Creek Public Schools, Roseland, La.
- \*Whitmire, Clarence L., died at Waverly, Ia., September 29, 1895.

#### CLASS OF 1880

- Bacon, Katherine Ingalls, B.L., New Whatcom, Wash.
- Batchelder, Augusta, Mrs. W. T. Eaton, 533 W. Erwin St., Tyler, Texas.
- Bley, John Cornelius, B.S., Bridge Machinery Designer, 5044 Washington Park Pl., Chicago. (Room 417 City Hall.)
- Briles, Byard Stevens, B.S., Confectioner and Baker, 106 E. Fourth St., Carthage, Mo.



- Conklin, Roland Ray, M.L., Investment Securities, 35 E. 72d St., New York City. (135 Broadway.)
- Cook, Charles F., B.S., Capt., Farmer and Grain Speculator, Edwardsville.
- Groves, Charles Wesley, Capt., Sup't. of Schools, 815 Peoria Ave., Dixon.
- Hafner, Christian Fred., Fire Insurance, 409 Chicago Ave., Oak Park. (160 La Salle St., Chicago.)
- \*Harden, Edgar Eugene, died at Liberty, Neb., June 2, 1899.
- Hatch, Frank Wait, A.B., LL.B., Farmer, Richmond.
- Hyde, Benjamin, Contractor, 1939 Deming Pl., Chicago. (1304 Chamber of Commerce Bldg.)
- \*Jones, Robert D., died at Bradford, March 9, 1896.
- Kingsbury, Charles Sumner, B.S., Nurseryman, 1735 E. 18th Ave., Denver, Colo.
- ✓ Lucas, Corda Candes, A.B., Teacher, 108 S. Fifth St., Champaign.
- Neely, Charles G., B.L., Lawyer, 1220 Ridge Ave., Evanston. (1019 Ashland Blk., Chicago.)
- ✓ Parker, Minnie Alice, B.L., Mrs. M. P. Hostetler, Board of Education, 341 Macon St., Decatur.
- Parker, Washington Leroy, B.S., Engineer, 632 Grace St., Elgin. (Watch Factory.)
- ✓\*Pearman, Ida, B.L., Mrs. C. H. Stevens, died at Logansport, Ind., August, 24, 1892.
- Robinson, Albert Fowler, C.E., Bridge Engineer, A. T. & S. F. R'y. System, Room 1000, Railway Exchange Bldg., Chicago.
- Robinson, Arthur Seymour, B.S., Chief Engineer, Northern Mich. R. R., St. Ignace, Mich.
- Savage, George Marvin, M.L., Instructor in English and Modern Languages, 212 23d Ave., N. Seattle, Wash. (Acme Business College.)
- Sondericker, Jerome, B.S., C.E., Associate Professor Applied Mechanics, Mass. Institute Technology, 170 Oakleigh Road, Newton, Mass. (Boylston St., Boston.)
- \*Travis, William W., died September 30, 1885.
- ✓ Watson, Ella Maria, B.S., Mrs. J. H. Davis, Straight Creek, Kas.
- White, Frank, B.S., Governor, Bismarck, N. Dak.

## CLASS OF 1881

- \*Allison, James G., died at Anthony, Kas., April 21, 1891.
- Armstrong, James Elder, B.S., Principal of Englewood High School, 529 W. 62d St., Chicago.
- \*Baker, Kittie Marie, Mrs. J. G. Wadsworth, died at Council Bluffs, Ia., November 23, 1899.
- Barnes, Bertha E., B.L., Mrs. S. D. Ross, Grand Island, Neb.
- Beach, Bayard Edwards, B.L., Real Estate and Loans, Huron, S. Dak.
- Bellamy, Albert, Real Estate and Loans, Girard.
- Birney, Frank Lansing, M.D., Physician, 1524 Gaylord St., Denver, Colo. (301 Quincy Blk.)
- Boothby, Arthur, B.S., Chief Draughtsman, 3311 N. Pennsylvania St., Indianapolis, Ind. (Dean Bros.' Steam Pump Works.)
- Boyd, Comma Nathaniel, Farmer, Sheffield.
- Coddington, Archibald Osborn, M.L., Principal W. C. Goudy School, 938 Summerdale Ave., Chicago.
- \*Cooper, Frederic E., B.S., died at Van Buren, Ark., January 24, 1899.
- Davis, Arthur Eldorus, B.L., M.D., Physician, Arbala, Texas.
- Davis, Marietta, B.L., Mrs. H. M. Beardsley, 3621 Walnut St., Kansas City, Mo.
- Dennis, Charles Henry, B.L., Capt., Editorial Writer, *Daily News*, 1893 Roscoe St., Chicago. (123 Fifth Ave.)
- Dresser, John C., B.S., Cashier, Bank of Sorento, Sorento.
- Elder, Loretta Kate, B.L., Mrs. A. F. Robinson, Room 1000, Railway Exchange Bldg., Chicago.
- Forsyth, James W., Machinist, Gilroy, Cal.
- Hammett, Frank Watson, B.S., Capt., Real Estate and Insurance, 16 Cajon St., Red Lands, Cal.
- Hammett, Virginia Mann, Mrs. A. N. Talbot, 1011 California Ave., Urbana.
- Hill, Fred Lehman, Civil Engineer and Contractor, Highland Park. (Hill & Grant, Marquette Bldg., Chicago.)
- Hill, Thomas Crawford, A.B., Capt., Principal Geo. Wm. Curtis' School, 200 W. 113th Pl., Chicago.
- \*Kingman, Arthur H., died at Boston, Mass., September 9, 1892.
- \*Lawhead, Lucy M., died at Champaign, May 1, 1884.
- Lawrence, Nettie E., Mrs. J. A. Allen, Visalia, Cal.
- McKay, Francis Marion, B.L., Principal Anderson School, 134 Warren Ave., Chicago.

- ✓ Macknet, Metta Mary Irene, A.B., Mrs. B. E. Beach, 529 Beach St.,  
 Huron, S. Dak.  
 Mansfield, Willis A., B.S., M.D., Physician and Surgeon, Washing-  
 ton.  
 Mason, William Kaime, B.S., Farmer, Buda.  
 Morse, John Hale, Capt., Vice President The Colorado Banking &  
 Trust Co., 4319 Berkley Ave., Chicago. (826 Marquette Bldg.)  
 Pearman, James Ora., B.S., M.D., Physician, Mahomet.  
 Pepoon, Herman S., B.S., M.D., Instructor in Biology, Lakeview  
 High School, 1314 Wolfram St., Chicago.  
 Pepoon, William Abbey, Gen'l. Mgr. of the Bullionaire Consolidated  
 Copper Mines, Baker City, Ore.  
 Philbrick, Ethan, B.S., Capt., Civil Engineer and Contractor, Bald-  
 win, Ga.  
 \*Fletcher, Francis M., B.S., died at Covina, Cal., June 15, 1888.  
 \*Porter, F. H., Capt., died at Garden Prarie, January 10, 1886.  
 Ross, Sprague Dwight, B.S., Ass't Cashier First National Bank,  
 Grand Island, Neb.  
 Schwartz, Joseph, Druggist and Fruit Grower, Salem.  
 Seymour, Arthur Bliss, M.S., Ass't. in Cryptogamic Herbarium,  
 Waverley, Mass. (University Museum, Cambridge, Mass.)  
 Slade, Byron A., B.S., Druggist, 1027 Spafford Ave., Rockford.  
 (422 E. State St.)  
 \*Stacy, Morelle M., B.S., died at Spring Hill, Ala., July 17, 1895.  
 Sturman, James B., B.L., Lawyer, Salina, Kas.  
 Talbot, Arthur Newell, C.E., Capt., Professor of Municipal and  
 Sanitary Engineering, Univ. of Ill., 1011 California Ave., Ur-  
 bana.  
 Thomas, Darlie, B.L., 5211 Woodlawn Ave., Chicago.  
 Weston, William S., B.L., B.S., Civil Engineer, 6617 Greenwood  
 Ave., Chicago. (Harvey.)  
 Wilson, Maxwell Blackburn, Farmer, Paris.  
 ✓ Wright, Jessie Armilda, B.L., Mrs. H. E. Richardson, Rentchler.

#### CLASS OF 1882

- ✓ Andrus, Dora Angeline, B.L., Mrs. J. C. Griffith, Ashton.  
 ✓ Avery, Kittie Clyde, B.L., 2736 Decatur St., Omaha, Neb.  
 \*Bailey, Samuel Gordon, Jr., B.S., M.D., Capt., died in Chicago, May  
 13, 1901.  
 Barnes, Charles C., Sup't Reconstructed Granite Co., Norristown,  
 Pa.

- \*Bridge, Arthur M., died at Goldfield, Ia., June 9, 1894.
- Bullard, Benjamin Franklin, B.L., Principal High School, 923 Peoria Ave., Dixon.
- Bullard, George Wesley, M.Arch., Architect, 523 J St. North, Tacoma, Wash. (621-2 Provident Bldg.)
- Carman, William Burgess, B.S., M.D., Capt., Physician, 32 Upton Park, Rochester, N. Y.
- Cole, Edward Everett, A.M., Capt., Principal High School, 246 Grand Ave., Grand Junction, Colo.
- ✓ Cole, Fronia Rickords, Mrs. Wilbord F. Hall, McLeansboro.
- Curtiss, William Goss, Farmer, Stockton. (Lena.)
- Davis, Jephtha H., Farmer, Straight Creek, Kas.
- Eichberg, David, B.L., LL.B., Capt., Lawyer, 23 Crilly Pl., Chicago. (510-167 Dearborn Ave.)
- Eisenmeyer, Andrew John, B.S., Capt., President and Manager Eisenmeyer Milling Co., Springfield, Mo.
- Harrison, Samuel Alexander, A.M., Principal Burroughs School, 10610 S. Leavitt St., Chicago.
- \*Merritt, Charles H., died at Mason City, Feb. 8, 1901.
- Neely, John Ralph, M.L., M.D., 1455 Edgecomb Pl., Chicago.
- Noble, Thomas, Jr., Gold Mining, 408 Logan Ave., San Diego, Cal. (Pine Valley Mines, Descanso.)
- Orr, Robert Ellwood, B.S., Capt., Civil Engineer, 105 2nd Ave., Joliet. (309 Barber Bldg.)
- \*Palmer, Charles W., B.L., died at Austin, Texas, July 4, 1884.
- Peabody, Arthur, B.S., Architect, 5803 Madison Ave., Chicago. (Peabody & Beasley, 1007 Monadnock Bldg.)
- ✓ Raley, Arvilla K., Mrs. James D. Harrison, 37 H St., Salt Lake City. Utah.
- \*Richards, George William, B.S., Capt., died at Carthage, N. M., May 15, 1889.
- Roberts, Charles Newton, B.S., Engineer and Surveyor, 4078 Milwaukee Ave., Chicago. (97 Clark St.)
- Rugg, Frederick Daniel, B.L., Pres. Life Ins. Co. and Mgr. Liquid Air Lectures, Champaign. (Springfield.)
- Sharp, Abia Joseph, M.E., Capt., Mechanical Engineer, Harrisonville, Mo. (Harrisonville Iron Works.)
- Shlaudeman, Frank, B.S., Pres. and Sup't. Decatur Brewing Co., 833 S. Webster St., Decatur. (604 E. Cantrell St.)
- Slauson, Howard Brinkerhoff, B.S., Florist, Brighton, Wash.

- Smith, Charles Linnaeus, B.L., Capt., Lawyer, 2018 Hawthorne Ave., Minneapolis, Minn. (703 Northwestern Blk).  
 Spencer, Nelson S., B.S., Architect, 112 E. Green St., Champaign.  
 Taft, Florizel Adino, B.S., Cashier Bank of Hanover, Hanover, Kas.  
 Todd, James, B.S., Manufacturer of Hydraulic Equipment, Elgin.  
 Turner, Herbert, Capt., Electrical Engineer, 1618 N. Main St., Dayton, Ohio. (People's R'y. Co.)  
 Wadsworth, John George, Capt., Banker, 714 1st Ave., Council Bluffs, Ia. (201 Pearl St.)

#### CLASS OF 1883

- Abbott, Edward Lorenzo, B.S., Civil Engineer, 71 Broadway, New York, N. Y.  
 \*Adams, Charles Francis, died at Chicago, May 20, 1893.  
 \*Ashby, Lida M., B.L., Mrs. C. L. Richards, died at Hebron, Neb., Sept. 1, 1888.  
 Bogardus, Charles Eugene, B.S., Assayer and City Chemist, 323 14th Ave., North Seattle, Wash. (60 Columbia St.)  
 - Boggs, Martha Harriet, A.M., Mrs. I. A. Love, 1214 N. Vermilion St., Danville.  
 Brainard, Clarence, Ass't Engineer Illinois River Improvement, Beardstown.  
 - Colvin, Mary Sabina, Mrs. W. C. Hargis, Bondville.  
 Craig, William Patterson, LL.B., Capt., Lawyer, 11 Main St., Champaign.  
 - Fellows, Clara Belle, B.L., Mrs. B. F. Day, 533 14th Ave., N. Seattle, Wash.  
 - Gardner, Jessie, B.L., Musician, East Norwood, Ohio.  
 Gates, Alphonso Samuel, C.E., County Surveyor, Spearfish City, S. Dak.  
 Going, Judson Freeman, LL.B., Corporation Lawyer, 221 Fremont St., Chicago. (1505 Title and Trust Bldg.)  
 Goltra, William Francis, B.S., Capt., Purchasing Agent L. E. & W. R. R. Co., 375 Amesbury Ave., Cleveland, O.  
 Gray, Nelson Allison, B.S., Capt., Sec'y Burford Mining Co., Chatsworth, Cal.  
 Haven, Dwight Craig, Capt., County Judge, Pres. Joliet Republican Printing Co., and President Builders' Supply Co., 408 Richards St., Joliet. (322 Barber's Bldg.)  
 - Healey, Grace, B.L., Mrs. C. L. Smith, 2018 Hawthorne Ave., Minneapolis, Minn.

- Heath, William Ames, B.L., State Bank Examiner, 715 W. University Ave., Champaign.
- Hewes, George Cavender, B.S., S. T. B., Missionary, Budaun, N. W. P., India.
- Huey, Joseph Darwin, Inspector, Am. Beet Sugar Co., Halleck, Cal.
- Kenower, John Thomas, Editor and Publisher of *The Bulletin*. Breckenridge, Mo.
- Knowlton, Lizzie Annette, B.L., Mrs. E. H. Cushman, 1735 Amst Ave., New York, N. Y.
- \*Langley, Celeste, B.L., Mrs. H. B. Slauson, died at Seattle, Wash., Sept. 3, 1903.
- Lewis, Camilla Florence, B.L., Mrs. C. J. Bills, 1503 H St., Lincoln, Neb.
- Lewis, Ralph D., Agent N. Y. Life Ins. Co., Oberlin, O. (Cleveland, Ohio.)
- Little, Henry P., B.S.
- McCune, Henry Long, B.L., LL.B., Capt., Lawyer, 708 Troost Ave., Kansas City, Mo. (609 New England Bldg.)
- Moore, William Douglas, of Moore Bros., Proprietors Wichita Stove & Iron Works, 1715 University Ave., Station A, Wichita Kas. (116-236 N. Santa Fe Ave.)
- \*Palmer, Arthur William, Sc.D., died at Urbana, Feb. 4, 1904.
- Peabody, Kate Fleming, B.L., Mrs. Winthrop Girling, 76 E. 50th St. Chicago.
- Peirce, Fred Densmore, B.S., Pharmacist, 5543 Wabash Ave., Chicago. (5500 State St.)
- Piatt, Silas Hubbell, Traveling Agent Great Northern Express Co., Minneapolis, Minn. (Great Northern Express Co., St. Paul.)
- Scotchbrook, George Pope, Grain Buyer, Wessington, S. Dak.
- Sondericker, William, A.B., M.D., Teacher, Woodstock.
- Stewart, Ella Mary, Teacher, 1543 W. Monroe St., Chicago.
- Weis, Joseph Brennemann, B.S., Analytical and Mfg. Chemist, Franklin, Ohio.
- Wright, Minnie Elizabeth, B.L., Mrs. J. M. Blackburn, Jester, Texas.

#### CLASS OF 1884

- Abbott, William Lamont, Chief Operating Engineer, Chicago Edison Co., 3213 Bacon St., Chicago. (Edison Bldg.)
- Austin, James, Div. Engr. N. Div. C. B. & Q. R. R., LaCrosse, Wis. (C. B. & Q. R. R. Depot.)

- Ayers, Annetta, B.L., B.S., M.D., Mrs. C. B. Saunders, Physician,  
211 E. Chicago Ave., Chicago.
- Babcock, Guy H., Capt.
- Barber, Ella Ursula, M.L., with N. Y. Life Insurance Co., 1177  
Rokeby St., Chicago. (1418 Tribune Bldg.)
- Barbour, Henry Hugh, B.S., Structural Eng'r Lackawanna Steel  
Co., 14 W. 96th St., New York, N. Y. (100 Broadway.)
- \*Bartholf, Emmett G., A.B., died at Chicago, December 28, 1884.
- Bartholf, William Joseph, A.B., Principal Von Humboldt School,  
967 Warren Ave., Madison St. Station, Chicago.
- Braucher, Alma Elizabeth, B.S., M.D., 227 Lincoln Ave., Lincoln.
- Braucher, Arthur Conrad, B.S., Engineer and Draughtsman, with  
Westville Coal Co., 501 Sherman St., Danville.
- Campbell, Juniata Genevieve, B.L., Mrs. T. F. Hunt, Ithaca, N. Y.
- Chapman, Norman Ward, Engineer and Mine Superintendent, 117  
Cherry St., Seattle, Wash.
- \*Clark, Lucy J., died at Wichita, Kas., January 9, 1887.
- Conkling, Anna Julia, B.L., Mrs. A. B. Seymour, Waverly, Mass.
- Eberlein, Frederic Walter, B.S., M.D., Physician and Surgeon, La-  
con.
- Ellis, Lola D., B.L., Mrs. J. W. Forsyth, Gilroy, Cal.
- Hall, Lucy Alzira, Mrs. S. W. Parr, 919 W. Green St., Urbana.
- Herdman, Frank Elmer, M.E., Capt., Winnetka.
- Hill, Cora Jane, Stenographer, Coll. of Agr. Univ. of California,  
2113 Rose St., Berkeley, Cal.
- Hunt, Thomas Forsyth, M.S., D.Agr., Professor of Agronomy, Cor-  
nell Univ., and Mgr. of Univ. Farm, Ithaca, N. Y.
- Kemball, Georgetta, B.L., Mrs. H. L. Murray, Lerna.
- Kimball, Edwin Raymond, B.S., Staff Correspondent *American  
Lumberman*, Flat 17, 883 N. Clark St., Chicago. (Chicago Press  
Club.)
- Krause, Josephine, Mrs. Alfred Chalfont, San Diego, Cal.
- Lietze, Frederic Augustus, B.S., Civil Engineer, Carlyle.
- Lilly, Charles Hervey, B.S., Merchant Miller and Wholesale Grocer,  
1106 5th Ave., W., Seattle, Wash. (Foot of Main and Jackson  
Sts.)
- Lilly, James Edward, Merchant, Dawson, Yukon Territory, Canada.  
(129 3d Ave.)
- McCluer, George Washington, M.S., Farmer, Jackson, Miss.

Montezuma, Carlos, B.S., M.D., Physician and Associate Professor, Post Graduate Hospital, 3158 S. Park Ave., Chicago. (100 State St.)

Morgan, George Nathan, B.L., LL.B., Lawyer, 7646 Marquette Ave., Chicago. (112 Dearborn St.)

Parr, Samuel Wilson, M.S., Professor of Applied Chemistry, Univ. of Ill., 919 W. Green St., Urbana.

Philbrick, Solon, Capt., Judge Circuit Court, 210 W. Hill St., Champaign. (16 Main St.)

Roberts, Lewis Clark, B.S., Capt., Electrician, 4098 Milwaukee Ave., Chicago. (709 Reaper Blk.)

Rupp, Andrew Oliver, B.L., Author, Chenoa.

— Sim, Keturah Elizabeth, M.L., Teacher, Urbana.

Sizer, Lucius Noyes, B.S., Civil Engineer, Fisher.

— Smith, Laura Belle, Mrs. S. H. Piatt, 129 Highland Ave., Minneapolis, Minn.

\*Speidel, Ernest, B.S., died at Ravenswood, Oct. 19, 1892.

Stevens, Herbert Allen, B.S., Civil Engineer, 104 Bartleson St., Joliet. (Opera House Blk.)

Stratton, Samuel Wesley, D.Sc., D.Eng., Capt., Director National Bureau of Standards, Nat. Bureau of Standards, Dep't of Commerce and Labor, Washington, D. C.

VanPetten, Henry Seward, B.S., Druggist, East Las Vegas, New Mexico.

Vial, Edmund Robert, B.L., Farmer and Dairyman, Western Springs.

Wills, Jerome Gideon, B.L., Lawyer, Farmer, Shobonier.

#### CLASS OF 1885

Abbott, Alfred Noyes, Capt., Farmer, Morrison.

Ayers, Judson Finley, with Eng'g Corps Mex. Central R. R.

Braucher, William Burson, Draftsman, 525 Sherman St., Danville.

Carter, Harry Leslie, Humboldt.

— Clark, Kate Frances, B.S., Mrs. W. H. Stockham, 1113 N. 25th St., Birmingham, Ala.

Cole, Thomas Edward, M.D., Physician, LeMars, Ia.

Colton, Simeon Colton, B.S., Civil Engineer, with FitzSimmons & Connell Co., 44 E. 66th St., Chicago. (1014-131 LaSalle St.)

Dunlap, Robert Livingston, Farmer, Savoy.

— Earle, Mary Tracy, B.S., A.M., Writer, 105 Waverly Pl., New York, N. Y.



- Ellis, George Huntington, Sec'y and Treas. G. W. Pitkin Co., 1818 Wesley Ave., Evanston. (Fulton and Carpenter Sts., Chicago.)
- Hicks, George Leroy, B.L., Farmer, Gaza, Ia.
- Hopper, Charles, 5907 Prairie Ave., Commercial Paper Broker, Chicago. (908 Tacoma Bldg.)
- Jones, Emma Taylor, B.L., Mrs. P. T. Spence, 55 Hoffman Ave., Columbus, Ohio.
- Kendall, William Finley, B.S., Engineer, Master of Way, C. C. C. & St. L. R. R., Wabash, Ind.
- Kent, James Martin, B.S., Electrical Engineer and Instructor in Applied Electricity in Manual Training High School, 2726 Holmes St., Kansas City, Mo.
- Lantz, Milo Plank., B.S., Capt., Farmer and Breeder of Aberdeen Angus Cattle, Carlock.
- Lattin, Judson, B.S., Capt., General Sup't Minnie Harvester Co., 1736 Stillwater Ave., St. Paul, Minn.
- Manns, Albert George, Ph. D., Chief Chemist, with Armour & Co., 4956 S. Marshfield Ave., Chicago. (Union Stock Yards.)
- Marshall, Sherman Latta, B.L., Capt., Cashier Ipava State Bank, Ipava.
- Merboth, Louisa, Mrs. Geo. N. Morgan, 7646 Marquette Ave., Chicago.
- Miller, John Albert, A.M., M.Sc., Ph.D., Analytical and Consulting Chemist, State Analyst, 353 Hudson St., Buffalo, N. Y. (44-45 Lewis Blk.)
- Morse, Edward Leland, B.S., Capt., Chief Eng'r C. & A. R'y, 4423 Champlain Ave., Chicago. (3304 Archer Ave.)
- North, Arthur Tappan, Architect, Kewanee. (312 Wainwright Bldg., St. Louis, Mo.)
- Owens, Bessie Wolfe, Mrs. J. H. Needham, Teacher, North Yakima, Wash.
- Paullin, L. Estelle, M.D., Mrs. Dr., L. E. Paullin-Padgett, Physician and Surgeon, Springfield. (319 S. 5th St.)
- Petty, George Riley, G. R. Petty & Co., Planing Mill, R. F. D. 2, Champaign. (32 S. Market St.)
- Plank, Bessie Gay, Mrs. L. Thompson, Winamac, Ind.
- Rankin, Charles Herve, Fruit and Poultry Raiser, Civil Engineer, Falls Creek.
- Reynolds, Henry Lincoln, B.S., Patent Attorney and Mechanical Eng'r, 44 Armstrong Ave., Jersey City, N. J. (150 Nassau St., N. Y. City.)

- Ronalds, Hugh Louis, B.S., Ass't Cashier Farmers' Nat'l Bank, Grayville.
- Schlader, Theodore Henry, B.S., Contractor, 1014 Monadnock Blk., Chicago.
- Schrader, Alfred Charles, Chief Engineer, West Chicago Park Commissioners, 896 Turner Ave., Chicago. (Union Park.)
- Smith, William H., Attorney, Lewistown, Mont.
- Stockham, William Henry, B.S., Capt., Stockham Pipe and Fittings Co., 1115 N. 5th St., Birmingham, Ala.
- Swern, William Cooke, Architect, 1519 W. Adams St., Chicago. (97 Clark St.)
- Switzer, Charlotte, Principal of High School, 608 W. Church St., Champaign.
- Vial, Frederic Ketchum, B.S., Chief Engineer of Griffin Wheel Co., LaGrange. (Care Griffin Wheel Co., Chicago.)
- Weston, Abbie, Mrs. W. C. Swern, 1519 W. Adams St., Chicago.
- Wills, Etta Catherine, Mrs. J. W. Schenker, Vandalia.
- Woodworth, Charles William, M.S., Ph.D., Ass't Professor of Entomology, Agt'l Experiment Station, Univ. of Cal., 2043 Lincoln St., Berkeley, Cal.
- Wright, John Edwards, A.M., Managing Editor *Evening Post*, 2439 Lakewood Ave., Chicago. (156 Washington St.)
- Wright, Lizzie Marilla, Mrs. M. W. Canaday, 122 S. Kedzie Ave., Chicago.
- \*Wright, Minnie Sunderland, Mrs. H. H. Barbour, died at Savanna, April 18, 1900.
- Zeller, Josephine M., 1111 N. Monroe St., Peoria.

#### CLASS OF 1886

- Ayers, Laura Belle, B.L., Teacher, Kenwood School, cor. Cornell Ave. and 53d St., Chicago.
- Babcock, William Arthur, B.L., Lawyer, Lewistown.
- Bannister, George Steele, B.S., Architect, 531 E. 62d St., Chicago. (1301-153 LaSalle St.)
- \*Barrett, Dwight Harrison, died at Baltimore, Md., December 30, 1888.
- Builard, S. Foster, Civil Engineer, 3001 N. 29th St., Tacoma, Wash. (506 Fidelity Bldg.)
- Chitty, William Lemon, B.L., LL.B., Member of Board of Pension Appeals, Bethesda, Md. (U. S. Dep't of Interior.)

- Cromwell, John C., B.S., Mechanical Engineer, Cleveland, Ohio.  
(Garrett-Cromwell Eng'g Company, 1104 New England Bldg.)
- Davis, James Oliver, B.S., Lawyer, 1907 Travis St., Houston, Texas.  
(1016½ Congress Ave.)
- Dodds, Joseph Chambers, B.L., M.D., Physician, 203 W. Church  
St., Champaign. (Illinois Bldg.)
- Elder, Nettie, Mrs. Charles F. Harris, 511 S. Randolph St., Cham-  
paign.
- \*Endsley Leroy, B.S., died at Milford, January 2, 1892.
- Ermentrout, Anna Mae, B.L., Mrs. C. A. Kamper, 960 Jackson Blvd.,  
Chicago.
- Everhart, Thomas Ward Beecher, A.B., Sup't of Schools, Mason  
City.
- Fairchild, Rozina Phoebe, B.L., Mrs. J. O. Davis, 1907 Travis St.,  
Houston, Texas.
- Fulton, James, B.S., Orange and Lemon Packer and Shipper, 3209  
L St., San Diego, Cal.
- Garrett, James H., B.S., Electrical Eng'r, Ashton.
- Garvin, John Brewer, B.S., Instructor in Chemistry, E. Denver High  
School, Scott Pl. and Grove St., Denver, Colo.
- Harris, James Waldo, B.S., with Pere Marquette Co., Charlevoix,  
Mich. (222 4th St. Depot, Detroit.)
- Hubbard, Harry Thomas, Hardware, 306 W. Elm St., Urbana. (119  
W. Main St.)
- \*Huff, Bertie, B.L., Mrs. A. Philbrick, died at Chicago, April 6,  
1895.
- \*Jacobson, Jacob Stone, died at Denver, Colo., July 15, 1890.
- Jaques, Minnie, B.L., Bookkeeper, Urbana Banking Co., 207 W. Elm  
St., Urbana.
- Kamman, Charles Henry, B.L., Principal McKinley School, 810  
Sixth Ave., Peoria.
- Lemme, Emil, Architect, 204 Hickory Ave., San Francisco, Cal.
- Lumley, Clinton Grant, B.S., M.D., Physician, 407 33d St., Chicago.  
(103 State St.)
- Morse, Henry Milton, B.S., with Ralph Modjeski, Consulting Eng'r,  
2292 N. Ashland Ave., Chicago. (1742 Monadnock Bldg.)
- Olshausen, Walter Aurel George, B.S., Civil and Mining Engineer,  
Parral, Mex.
- Parminter, Grace Etta, B.L., 4319 Berkeley Ave., Chicago.
- Pence, William David, C.E., Professor of Civil Engineering, Purdue  
Univ., LaFayette, Ind.

Philbrick, Alvah, Chief Eng'r, M. & G. R. R., Memphis, Tenn.

\*Plowman, William Lewis, B.L., died at Shoshone, Wyoming, July 13, 1893.

Roberts, Vertus Bassett, Capt., Civil Engineer and Surveyor, 175 Vermont St., Blue Island. (Room 709-107 Washington St.)

Sargent, Charles Elliotte, M.S., Mechanical Engineer, 2560 N. Winchester Ave., Chicago. (1214 Manhattan Bldg.)

Shlaudeman, Harry, Secretary and Treasurer Decatur Brewing Co., and Pres't Citizens' Nat. Bank, 955 Lincoln Ave., Decatur. (604 E. Cantrell St.)

Thompson, Luther, Capt., Vice Pres. and Gen'l Mgr. Marion Land Co., Winamac, Ind.

\*Whitmire, Zech Lincoln, M.L., M.D., died at Urbana, Dec. 3, 1899.

Wilder, Henry White, A.B., Capt., Secretary Chicago Bridge & Iron Co., 9847 Prospect Ave., Chicago. (Throop and 105th Sts.)

#### CLASS OF 1887

Barclay, William, B.S., County Surveyor, 720 Sandusky Ave., Kansas City, Kas. (Court House.)

Blake, John Bidwell, B.S., Electrician, Lombard. (1618 Monadnock Blk., Chicago.)

Cantine, Edward Ike, C.E., Capt., Div. Eng'r D. L. & W. R. R., 45 Watson Ave., E. Orange, N. J. (Care D. L. & W. R. R., Hoboken, N. J.)

Clark, Percival Lemon, B.S., President Nat'l Self-Winding Clock Co., Bristol, Conn.

Dryer, Ervin, B.S., Electrical Engineer, 26 Ogden Ave., Chicago. (171 La Salle St.)

— Eisenmayer, Ida, Mascoutah.

Fargusson, Mark, C.E., Capt., Engineer and Naval Architect, Room 914-17 State St., New York City.

Fink, Bruce, M.S., A.M., Ph.D., Professor of Botany, Iowa Coll., Grinnell, Ia.

— Gayman, Angelina, Mrs. N. A. Weston, 604 W. Healy St., Champaign.

Gilbert, Frank Marion, Draftsman, 183 Buena Vista Ave., Yonkers, N. Y. (610 Grand Central Station, N. Y. City.)

Gill, Rudolph Zerse, Contractor, 932 W. Illinois St., Urbana. (135 W. Main St.)

Goldschmidt, Edward William, Dist. Mgr. Bullock Elect. Mfg. Co., 69 Walnut St., Montclair, N. J. (220 Broadway, New York City.)

- Goodwin, Philip Albert, B.S., Capt., Bookkeeper, Albany, Ore.
- Gregory, Grant, B.L., Suburban Editor *N. Y. Tribune*, 1620 69th St., Brooklyn, N. Y. (Tribune Bldg.)
- Henson, Charles Weber, B.S., Henson Bros., Printers and Publishers, 4826 Evans Ave., Hyde Park Station, Chicago. (373 Dearborn St.)
- Johnson Edward Spencer, Vice Pres. Flich & Johnson Construction Co., 1719 Le Claire St., Davenport, Ia. (Rockingham Road.)
- Lloyde, Clarence Angier, B.S., Electrician, 305 S. Randolph St., Champaign. (18 Taylor St.)
- Long, Frank Brewer, Architect, 327 Bowen Ave., Chicago. (1618 Monadnock Bldg.)
- Lyman, Henry Molineaux, B.S., Heine Safety Boiler Co., 704 N. 40th St., Philadelphia, Pa. (1120 Penna. Bldg.)
- Mitchell, Walter Reynolds, B.S., Dep't of Biology, Hyde Park High School, 433 E. 57th St., Chicago.
- Moore, Albert Cutts, B.L., Capt., Clerk, 303 Alden St., Walla Walla, Wash. (O. R. & N. Freight Office.)
- \*Powers, Mark, B.S., died at Evanston, Feb. 28, 1895.
- Richards, Albert Lennox, Ass't Engineer, Rock Island. (U. S. Engineer's Office.)
- Rinaker, John Irving, Jr., B.S., Architect, 212 E. Canedy St., Springfield. (44-45 Franklin Bldg.)
- Spear, Grant Warren, B.S., Wood Working Manufactory, 96 Wilder St., Aurora. (122-6 S. Lake St.)
- Tatarian, Bedros, B.S., Manager of Gold Mine, Dale, Cal.
- Taylor, Horace, Artist, Scarsdale, N. Y. City. (Bank of Metropolis Bldg., 31 Union Sq. W.)
- Waite, Merten Benway, B.S., Capt., Pathologist in charge of Orchard Diseases, 1353 Corcoran St., Washington, D. C. (Department of Agriculture.)
- Williams, Herbert Baldwin, B.S., Mining Engineer, Pearl, Idaho.
- Williamson, Mary Hess, B. L., Mrs. Pearl A. Elder, 607 E. Walnut St., Frankfort, Ind.

#### CLASS OF 1888

- Barnes, Mary Lena, A.M., 603 E. Springfield Ave., Champaign.
- Beach, Etta Lorraine, Mrs. John E. Wright, 2439 Lakewood Ave., Chicago.
- Beadle, John Grant, Architect, Galesburg.
- Bing, Benjamin, M.S., Merchant, Urbana.

- Bowditch, Fred B., B.L., Capt., Teacher, Urbana.
- Bryant, William Cullen, Architect and Heating and Ventilating Engineer, Dillon, Mont.
- Bush, Lincoln, B.S., Chief Engineer D. L. & W. R. R., 281 Springdale Ave., East Orange, N. J. (Hoboken, N. J.)
- Carter, Truman Post, B.S., A.M., Breeder of Fine Poultry, 475 Lincoln Ave., Jacksonville.
- Connet, Ella, M.L., Teacher, 308 E. 23d St., Baltimore, Md.
- Davis, Frank Loren, Capt., Marble and Mosaic Decorator, 302 Michigan Ave., Chicago. (214 S. 24th St., Philadelphia, Pa.)
- \*Dewey, Ralph Elmore, B.L., died at Evanston, March 7, 1893.
- \*Eldridge, Mary Augusta, B.L., died at Chicago, May 18, 1899.
- \*Ellison, Edward E., B.S., M.D., Capt., died at Alton, June 1, 1896.
- \*Folger, Adolphus D., died at Alma, Okla., Sept. 4, 1901.
- Frederick, Grant, B.L., Lawyer and Abstracter, Bloomington. (Livingston Bldg.)
- Goldschmidt, Alfred Gustave, B.S., Consulting Engineer, 1820 W. 3d St., Davenport, Ia. (With C. H. Wilmerding, 1100 Old Colony Bldg., Chicago.)
- Goodell, Nathan Phillips, B.L., Attorney and Investment Banker, Loda.
- Greaves, George, Metallurgist and Chemist, Decatur Car Wheel Works, Birmingham, Ala.
- Grindley, Harry Sands, Sc.D., Associate Professor of Chemistry, Univ. of Ill., 918 W. Green St., Urbana.
- Jillson, Nellie Wainwright, Teacher, Fulton School, 315 S. Highland Ave., Pittsburg, Pa.
- McHugh, George Burt, B.S., Capt., Lawyer, Houston, Texas.
- McLean, Nellie, B.L., Mrs. C. G. Lumley, 407 33rd St., Chicago.
- McLellan, Mary Clutha, 704 W. Park St., Champaign.
- Mathers, Effie Anne, B.S., Mrs. Paul Enlows, Mason City.
- Myers, George William, M.L., Ph.D., Capt., Professor of Math. and Astron., Univ. of Chicago, 6119 Monroe Ave., Chicago. (Coll. of Ed., 59th St., and Kimbark Ave.)
- Patton, Jacob Allen, B.S., M.D., Capt., Ass't Professor Chemistry and Materia Medica, Rush Medical College, Chicago.
- Pickard, Edward Webster, A.B., Capt., News Editor *Chicago Evening Post*, 362 LaSalle Ave., Chicago. (164 Washington St.)
- Place, Ramond Mason, B.L., Lawyer, Park Blk., Butte, Mont. (21 Silver Bow Blk.)

Roberts, Warren Russell, Roberts, Schaefer & Co., Consulting and Constructing Engineers, 9372 Prospect Ave., Chicago. (1275 Old Colony Bldg.)

Samuels, John Huntoon, B.S., Capt., General Manager D. M. Sechler Carriage Co., Moline.

Schaefer, John Victor Emanuel, B.S., Roberts, Schaefer & Co., Consulting and Constructing Engineers, 6630 Yale Ave., Chicago. (1275 Old Colony Bldg.)

Stoltey, Ida May, Mrs. George R. Petty, R. F. D. 2, Champaign.

\*Taylor, John Walter, B.S., Instantly killed at East St. Louis, Jan. 26, 1902.

VanGundy, Charles Philip, Chemist, Baltimore, Md. (B. & O. R'y.)

#### CLASS OF 1889

Bennett, Cleaves, M.L., M.D., Physician, Mattoon, Ill. (Denmarer Bldg.)

Bennett, Frederick Marsh, A.M., Unitarian Clergyman, Lawrence, Kas.

Bopes, Charles Arthur, B.S., Farmer, Hamlet.

\*Briggs, Charles Wesley, B.L., died at Chicago, Sept. 3, 1898.

- Bronson, Lillie O., Professional Nurse, 1107 W. Illinois St., Urbana.

Carver, Albert, B.S., Capt., Teacher of Sciences in High School, 120 W. Allen St., Springfield.

- Church, Blanche Adelaide, B.L., Teacher of German and French, 636 Joliet St., La Salle. (La Salle-Peru High School.)

- Coffeen, Amy, B.L., Music Teacher, 111 W. Clark St., Champaign.

Daugherty, Louis S., M.S., Ph.D., Professor of Biology, Mo. State Normal School, Kirksville, Mo.

Dunaway, Horace, B.S., U. S. Ass't Engineer, 302 Bank of Minn. Bldg., St. Paul, Minn.

Evans, Rolla Watkins, B.S., Vice Pres. John W. Evans' Sons Co., 1412 N. Main St., Bloomington. (511-517 N. Center St.)

Kendall, Harry Frederick, B.L., Editor, Mattoon.

Kinder, David Russell, B.L., Lawyer, 1013 Madison St., Litchfield. (Masonic Blk.)

Kinthead, David Robinson, B.S., Civil Eng'r, Neodesha, Kas.

Lewis, Cyrus Almon, B.S., Farmer, R. F. D. 13, Joliet.

\*Lewis, James Livingston, B.L., Capt., died at Gainesville, Fla., December 20, 1894.

Ligare, Edward Francis, Civil Eng'r S. Park Com'rs, 156 Grove St., River Forest. (57th St. and Cottage Grove Ave., Chicago.)

McConney, Robert Bonner, B.S., Salesman and Eng'r with Holthoff Machinery Co., 428 Jackson St., Milwaukee, Wis. (Cudahy, Wis.)

Moles, Oliver Stephen, M.L., Ph.D., Principal of Sherman School, 14 Pearl St., Denver, Colo.

Paine, Leanah Jane, B.L., Long View.

Ross, Luther Sherman, M.S., Professor of Biology, Drake Univ., Des Moines, Ia.

Sparks, Mrs. Myrtle Eva., A.M., Instructor in Latin, Township High School, 1103 Post St., Ottawa.

Steele, Philip, B.S., Ass't Engineer West Pumping Station, 171 Os-good St., Chicago. (22nd St. and Ashland Ave.)

Weston, Margaret, B.L., Mrs. Frank M. VanOsdel, 747 W. 60th St., Chicago.

Weston, Nathan Austin, M.L., Ph.D., Ass't Professor of Economics, Univ. of Ill., 604 W. Healy St., Champaign.

\*Weis, Herman Lincoln, died at Tonica, July 25, 1891.

#### CLASS OF 1890

Barr, James, B.S., Capt., Chief Draftsman, Power Dep't Armour & Co., 636 W. 57th Pl., Chicago.

Bawden, Samuel Day., B.S., B.D., Capt., Chaplain, New York State Industrial School, 1 Backus Ave., Rochester, N. Y.

Beardsley, John, B.L., Insurance and Real Estate, 3941 Washington St., Kansas City, Mo. (Water Works Bldg.)

\*Benson, Edward Mills, B.S., died at Ames, Ia., October 8, 1894.

Bowsher, Columbus Austin, Author and Inventor, Champaign.

Boyle, Anna Cecilia, B.L., Mrs. Peter Junkensfeld, 320 S. Prairie Ave., Austin Station, Chicago.

Brumbach, Lucia Ray, B.L., Mrs. C. E. Bogardus, 323 14th Ave. North, Seattle, Wash.

Camp, Norman Harvey, B.S., LL.B., Bible Teacher and Evangelist, 80 Institute Pl., Chicago.

Clark, Edith Louise, Mrs. Jesse Kirkpatrick, St. Joseph, R. F. D. 13.

Clark, Frank Henry, B.S., Capt., Sup't of Motive Power, C. B. & Q. R. R., LaGrange.

Clark, Thomas Arkle, B.L., Professor of Rhetoric, Dean of Undergraduates, Ass't to the President., Univ. of Ill., 928 W. Illinois St., Urbana.

Clarkson, James Francis, B.S., Capt., Mason Contractor, 4823 Calumet Ave., Chicago. (Prendergast & Clarkson, Room 5, 159 LaSalle St.)



- Clinton, George Perkins, M.S., Botanist, Agricultural Experiment Station, New Haven, Conn. (123 Huntington St.)
- Cooke, Robert James, B.S., Capt., Ass't Eng'r C. & A. R'y, 616 W. 65th Pl., Englewood, Chicago. (Room 441 Grand Central Pass. Station.)
- Cornelison, Robert Wilson, S.D., Chemist and Sup't, Bloomfield, N. J. (H. B. Higgins' Sons Co.)
- Crabbs, Clarence Lincoln, B.S., Capt., 620 24th St., Moline. (Moline Plow Co.)
- Ellars, Jessie, A.M., Mrs. L. O. Hackett, Tuscola.
- Fisher, John Franklin, B.S., Capt., U. S. Townsite Surveyor, 701 Gilbert St., Danville. (Office of the U. S. Supervising Eng'r, Muskogee, Ind. Ty.)
- Gilliland, William Myers, B.S., Master Mechanic, Quincy Mining Co., Hancock, Mich.
- Hanssen, Gustavus Adolphus, Architect, 124 Rusholm St., Davenport, Ia. (Suite 51 Schmidt Bldg.)
- Hazelton, Hugh, B.S., Capt., Electrical Engineer, 3463 Forest Glen Ave., Chicago. (Interborough Rapid Transit Co., 32 Park Place, New York City.)
- Keene, Edward Spencer, B.S., Professor of Mechanics and Physics, N. Dak. Agricultural College, 1030 7th St., N., Fargo, N. Dak.
- Kennard, Katharine Louise, 311 W. University Ave., Champaign.
- McCandless, Henry Wallace, Manufacturer of Miniature Electric Lamps, 690 E. 22d St., Brooklyn, N. Y. (67-69 Park Place, New York.)
- McKee, Will Een, B.S., Master Mechanic Cleveland-Cliffs Iron Co., Ishpeming, Mich.
- Manny, Walter Isham, LL.B., State's Attorney, Mt. Sterling.
- Moore, Byron Llewellyn, B.S., with Consolidated Telephone Co., cor. Potomac Ave. and Brantford Place, Buffalo, N. Y. (536 Ellicott Sq.)
- Nesbit, Edwin, B.S., Mechanical Engineer, Cleveland, Ohio. (Grasselli Chemical Co.)
- Peoples, U. J. Lincoln, Architect, 5518 Homer St., E. E., Pittsburg, Pa. (Times Bldg., Pittsburg.)
- Proctor, Orla Alfred, B.S., B.L., Lumber Dealer, Chillicothe.
- Schaefer, Philemon Anatolio, Engineer and Surveyor, Parral, Chihuahua, Mex. (Calle del Colegio, No. 8.)
- Shamel, Charles H., M.S., LL.B., Lawyer, Taylorville.

- Snyder, Christopher Henry, B.S., Contracting Manager, San Francisco Office of Milliken Bros., 2239 Telegraph Ave., Berkeley, Cal. (413-415 Rialto Bldg.)
- Stevens, Fred Worthley, Chemist, 236 S. C St., Tacoma, Wash. (Tacoma Smelting Co.)
- Terbush, Linsley Fletcher, B.L., 304 Bowen Ave., Chicago. (215 Dearborn St.)
- Tresise, Francis John, C.E., Civil Engineer, 321 Herkimer St., Buffalo, N. Y. (400-401 D. P. Morgan Bldg.)
- \*Tscharner, John Baptiste, B.S., died at Waco, Texas, April 22, 1893.
- Waterman, Fred Walter, B.S., Capt., Mechanical Engineer of Nat'l Tube Co., 116 E. Broad St., Elyria, Ohio. (Lorain, Ohio.)
- White, James McLaren, B.S., Professor of Architectural Engineering, Univ. of Ill., 716 W. University Ave., Champaign.
- Wilber, Frank Dent, Coal and Implements, 707 W. Church St., Champaign.
- Wilkinson, George El Dorado, M.S., M.D., Capt., Physician, Alton. (17 E. 20th St.)
- Wilson, Robert Conover, B.S., M.D., Physician, 4302 Greenwood Ave., Chicago.

#### CLASS OF 1891

- Barclay, Thomas Henry, B.S., Merchant, Bookwalter, Neb.
- Beach, Laura Mae, Mrs. N. C. Wright, 734 N. Capitol Ave., Indianapolis, Ind.
- Bouton, Charles Sherman, LL.B., Lawyer, Springdale, Ark.
- Boyd, Willard Albion, B.S., Mechanical Engineer, New Brighton, Staten Is., N. Y. (95 Liberty St., New York City.)
- Braucher, Ernest Newton, B.S., Architect with Board of Education, 416½ N. Waller Ave., Chicago. (720 Tribune Bldg.)
- Broaddus, Alice Virginia, B.S., Mrs. T. A. Clark, 928 W. Illinois St., Urbana.
- Bunton, Fred Lyle, B.S., Manager Milwaukee Elec. Co., 4817 Fairmount Ave., Philadelphia, Pa. (730 Witherspoon Bldg.)
- Butterfield, Helen Eliza, M.L., Mrs. J. J. Schoonhoven, 34 Second Place, Brooklyn, N. Y.
- Carson, Anna, B.S., Teacher, 310 High St., Urbana.
- Chester, Dick Hubert, B.S. with Alberger Condenser Co., 2881 Broadway, New York, N. Y. (95 Liberty St.)

- Chester, John Needels, B.S., Chief Engineer, American Water Works and Guarantee Co., 1200 Bank for Savings Bldg., Pittsburgh, Pa.
- Clarke, Edwin Besançon, B.S., Capt., Architect and Engineer, 1326 S. 30th Ave., Omaha, Neb. (1009 N. Y. Life Bldg.)
- Clarke, Frederick Woodruff, B.S., Capt., Architect and Engineer, 2113 Wirt St., Omaha, Neb. (1009 N. Y. Life Bldg.)
- ✓ Darby, Nellie Margaret, B.L., Teacher in High School, Hedrich, Iowa.
- Eidman, Edward Charles, B.S., Railway Postal Clerk, Cincinnati & St. Louis R. R. P. O., 4246 Juniata St., St. Louis.
- Eno, Frank Harvey, C.E., Associate Professor of Civil Engineering, Ohio State Univ., 316 W. 8th Ave., Columbus, Ohio.
- Fischer, Lawrence, Merchant, Oregon.
- Frahm, Hans, B.L., LL.B., Lawyer, Tuscola.
- Frederickson, John Henry, B.S., Civil Engineer with James Stewart & Co., 302 Lincoln Trust Bldg., St. Louis, Mo.
- French, Ransford Morton, B.S., Architect, 72 E. 110th St., New York, N. Y.
- Gardner, Frank Duane, B.S., Soil Investigator, Mayaguez, P. I. (U. S. Dep't of Agriculture, Washington, D. C.)
- Gibson, Charles G., B.S., M.D., Physician, 711 10th St., Sioux City, Ia. (400 4th St.)
- Green, Thomas Stephen, B.S., M.D., Physician, 245 E. 43d St., Chicago. (39th St. and Cottage Grove Ave.)
- Harris, Jay Tarvin, B.S., Pres. and Treas. *The Daily Reporter*, 3 The Louise, 1st and State Sts., Salt Lake City, Utah. (158-160 S. W. Temple St.)
- Harvey, Alfred Ernest, C.E., Capt., Div. Eng'r C. G. W. R'y, 1st Ave., S., Ft. Dodge, Iowa.
- Hay, Walter Morris, B.S., County Surveyor, Sandwich.
- ✓ Heller, Opal Beatrice, M.L., Teacher, N. Yakima, Washington.
- Hobbs, Glen Moody, B.L., Instructor in Physics, Univ. of Chicago, 362 E. 54th St., Chicago.
- Howarth, Thomas James, A.B., Editor *Chester Tribune*, Chester.
- ✓ Jones, Isabel Eliza, Instructor in Art and Design, U. of I., 302 W. Church St., Champaign.
- ✓ Jones, Mabel, B.L., 302 W. Church St., Champaign.
- McClure, Ora Deal, B.L., Capt., 220 North St., Peoria.
- \*McCormick, Wirt, B.L., died at Mahomet, April 9, 1893.
- Maue, August, B.L., Teacher, 102 Mound St., Joliet.

- Mitchell, Charles Jacob, B.S., Mechanical Engineer, 836 College Ave., Beloit, Wis.
- Myers, Clara, B.L., Mrs. A. E. Harvey, 1st Ave., S., Ft. Dodge, Iowa.
- Paine, Sarah Mariana, Music Teacher, Long View.
- Peabody, Lorin William, B.S., Engineer of Tests, St. L. & S. F. R'y, Springfield, Mo.
- Powell, John Henderson, Treasurer Swofford Bros., Dry Goods, Kansas City, Mo. (Broadway and 8th St.)
- Richart, Frederick William, B.S., Chief Engineer Ill. Eng'g Co., Carterville.
- Seibert, Emma Effie, B.S., Champaign.
- Shamel, Clarence Albert, M.S., Associate Editor *Orange Judd Farmer*, 2003 Orrington Ave., Evanston. (204 Dearborn St., Chicago.)
- Shattuck, Anna Fletcher, M.L., Mrs. A. W. Palmer, 1013 California Ave., Urbana.
- Shattuck, Walter Francis, Architect and Professor of Architecture in Chicago School of Architecture, 4743 Kenwood Ave., Chicago. (900, 218 LaSalle St.)
- Smolt, Frank Oscar, B.S., Capt., Assayer, Mascota, Jalisco, Mex.
- Terrill, Joseph Samuel, M.S., Section Hand, C., B. & Q. R. R., Tampico, Ill.
- Vail, Charles Davis, B.S., Capt., Civil, Mining, and Hydraulic Engineer, Butte, Mont. (Butte Water Co. Office.)
- Wallace, Ross Strawn, B.S., Capt., Sup't Peoria Gas and Electric Co., Peoria.
- Young, Charles Bailey, B.S., Chief Draftsman C. B. & Q. R. R., 411 Fox St., Aurora. (209 Adams St., Chicago.)

#### CLASS OF 1892

- Barber, Alice May, M.S., Mrs. F. M. Bennett, Lawrence, Kas.
- Barber, William Davis, B.S., C.E., Ass't Engineer, Dep't of Public Works, Bureau of Eng'g, Construction and Repair Div., 1199 Wilton Ave., Chicago. (323 City Hall.)
- Barker, John King, B.S., Civil Engineer. Springfield, Mass. (332 Main St.)
- Beckwith, Frank, B.S., First Ass't Eng'r, L. S. & M. S. R. R., Cleveland, O.
- Bennett, Sarah, B.L., Mrs. John M. F. Erwin, 6504 Minerva Ave., Chicago.

- Boggs, Cassandra Armstrong, B.L., Teacher, Seattle, Wash.
- Burrows, Parke Tunis, B.S., Capt., Temple, Burrows & McLane, Architects, 221 Miss. Ave., Davenport, Ia. (McManus Bldg.)
- Carnahan, Franklin Gregory, A.B., Grain Merchant, 1680 Hennepin Ave., Minneapolis, Minn. (910 Chamber of Commerce.)
- Crissey, John Waterbury, B.S., Eng'r in Charge of Construction of Washington Filtration Plant, Washington, D. C. (2530 1st St., N. W.)
- Cross, Charles William, B.S., Manager Eng'g Dep't, 1629 Park Ave., Indianapolis, Ind. (Brown-Ketchum Iron Works.)
- Forbes, Robert Humphrey, M.S., Director Arizona Agricultural Experiment Station, Tucson, Ariz.
- Foster, Winslow Howard, B.S., Treas. Morava Construction Co., 9238 Pleasant Ave., Chicago. (85th St. and Stewart Ave.)
- Foster, Zebulon, B.S., Kankakee.
- Funston, Edmund Bailey, B.S., Architect associated with A. Arthur Guilbert, 501 Robinson Bldg., Racine, Wis.
- Gates, Andrew Wallace, C.E., Sec'y and Gen'l Mgr., Monmouth Mining and Manufacturing Co., Monmouth.
- Gregory, Mrs. Louise Catherine Allen, \*M.S., The Concord, Washington, D. C.
- Gulick, Edward Everett, A.M., B.D., Baptist Minister, 209 W. Church St., Champaign.
- Gulick, Joseph Piper, B.L., Lawyer, 508 S. Elm St., Champaign. (11 Main St.)
- Gunn, Charles Alexander, Architect, 159 McLean Ave., Yonkers, N. Y. (H. L. Kreuster, 3301 Penn Ave., Pittsburg, Pa.)
- Hall, Fred Augustus, Toppenish, Wash.
- Hart, Ralph Warner, B.S., Architect, 805 Mills Bldg., San Francisco, Cal.
- Harvey, Walter Clarence, B.S., Ass't Engineer C. & N. W. R'y, 2557 N. 44th Ave., Chicago. (No. 1 W. Kinzie St.)
- Herrick, Lott Russell, B.L., LL.B., Lawyer and County Judge, Farmer City.
- Hill, Agnes Gale, A.B., B.L., General Secretary Y. W. C. A. for India, Burma, and Ceylon. (Care Y. W. C. A., Bombay, India.)
- Kiler, Charles Albert, B.L., House Furnishings, Urbana. (24-26 Main St., Champaign.)
- McLane, Cyrus Daniel, B.S., Temple, Burrows & McLane, Architects, McManus Bldg., Davenport, Ia.

Martin, William Alexander, B.S., Sup't Quincy R'y & Carrying Co., Quincy.

Mather, Roy Allen, B.S., Capt., Draftsman and Instructor in Charge of Apprentice School, 7217 Monticello St., Pittsburg, Pa. (With American Bridge Co.)

Maxwell, Anne M., B.L., The Hampden, Langley Ave. and 39th St., Chicago.

Miller, William George, B.S., Sup't Chisholm, Boyd & White Co., 7051 Normal Ave., Chicago. (57th and Wallace Sts.)

\*Morgan, John Barb, Jr., LL.B., died at Phoenix, Ariz., Jan. 7, 1901.

Page, John William, Civil Engineer and Contractor, 2832 N. Paulina St., Chicago. (907 Security Bldg.)

Piatt, Herman S, Ph.D., Sup't of Schools, Coshocton, O.

Plank, Ulysses Samuel Grant, B.S., Ass't in Physical Education and Director of Athletics, Univ. of Kas., Lawrence, Kas.

Pullen, Rome B, B.L., Lawyer, 65 Oakwood Blvd., Chicago. (322 Reaper Blk.)

Scheidenhelm, Edward Lewis, B.S., Civil Engineer, with Purdy & Henderson, Willmette. (1014 Merchant's L. & T. Bldg., Chicago.)

Snodgrass, William, Jr., B.S., Draftsman, 307 Veta Ave., Pueblo, Colo.

Wait, Benjamin Asaph, B.S., Civil Eng'r, Urbana. (Cleborne, Tex.)

Walker, Edward Lewis, B.L., City Salesman, with H. J. Heinz Co., 103 Channing Ave., St. Louis, Mo. (99 E. Erie St., Chicago.)

Williamson, Frank Robert, B.S., Bridge Designer, 338 Leland Ave., Chicago. (1616 Monadnock Bldg.)

Woodworth, Howard Oakley, M.S., Foreman Cal. Poultry Station, Petaluma, Cal.

Wright, Royal, B.L., Lawyer, 905 W. Green St., Urbana. (Post Office Bldg.)

#### CLASS OF 1893

Andrews, Hubert Franklin, B.S., M.D., Physician, Gunnison, Utah.

Arbeiter, George John, B.L., LL.B., Lawyer, 714 Oneida St., Joliet. (Suite 318-320 Barber Bldg.)

\*Arnold, Mary Edna, A.M., Ph.D., died at Cambridge, Jan. 2, 1898.

Ayers, Grace, B.L., Mrs. W. A. Powers, 1012 Taylor St., Topeka, Kas.

- Bacon, Harlow, B.S., with U. S. Coast and Geodetic Survey, Washington, D. C. (New Jersey Ave., and B St., S. E.)
- Barrett, Edward Ernest, B.S., Civil Eng'r, 212 S. Madison Ave., La Grange. (Care of Fairbanks, Morse & Co.)
- Bartlett, Henry Emmett, B.S., Civil Engineer, 356 E. 51st St., Chicago. (1000 Illinois Central Station.)
- Behrensmeyer, George Philip, B.S., Architect, 320 N. 6th St., Quincy. (6th and Main St.)
- Blakesley, George Webster, Manager Branch House, Rock Island Stove Co., Kansas City, Mo.
- Brown, Frank Minear, B.S., Sec'y Twin Cities Savings and Loan Association, Champaign. (34 Neil St.)
- Carpenter, Harvey Irving, B.L., Professor of Musical Science and Pipe Organ, School for the Blind, Faribault, Minn.
- Carr, Robert Franklin, B.S., General Mgr. Dearborn Drug and Chemical Works, 416 Home Ave., Oak Park. (27-34 Rialto Bldg., Chicago.)
- Carter, Charles Willard, M.L., M.D., Physician, Aledo.
- Chambers, William Rock, B.L., LL.B., Lawyer, Danville. (308-309 Daniel Blk.)
- Chester, Oscar Paul, B.S., M.D., Physician, 4707 Lake Ave., Chicago.
- Coffeen, Fred Goldsmith, B.S., Chemist, Beaver Dam Malleable Iron Co., Beaver Dam, Wis.
- Cook, James W, B.S., with J. W. Shaub, 1650 Monadnock Bldg., Chicago.
- Cornell, William Henry, B.S., Draftsman, 7332 Hermitage St., Pittsburg, Pa.
- Craig, Edward Chilton, B.L., Lawyer, Mattoon.
- Danley, Willis Wilson, B.S., Pneumatic Mailing Tubes, Lamson Store Service Co., 20 Cheapside, E. C., London, Eng.
- Earl, Mark Alden, M.C.E., Civil Engineer, 6411 Greenwood Ave., Chicago. (1208 Fisher Bldg.)
- Fraser, Wilber John, B.S., Ass't Professor in Dairy Husbandry and Specialist in Dairying in the Agricultural Experiment Station, Univ. of Ill., 1003 S. Wright St., Champaign.
- Gibbs, William David, M.S., Pres. N. H. Coll. of Agriculture and Mechanic Arts, Durham, N. H.
- Graham, Louis Thomas, B.L., Lawyer, Pittsfield.
- Graham, William Johnson, B.L., State's Attorney, Aledo.
- Gulick, Frank M, B.L., Cotton Planter, Clarksdale, Miss.
- Higgins, Albert Grant, B.S., Architect, Elmwood.

- Hucke, Philip Matthias, B.S., Gen'l Manager Kolb Coal Co. Mines, St. Louis, Mo. (Room 305 Mermod & Jaccard Bldg.)
- Hunt, Edward Everett, B.S., with Mumford & Co., Rialto Bldg., Chicago.
- Johnson, Harriette Augusta, 1132 First Ave., Rock Island.
- Kinkead, James Albert, B.S., Eng'r of Tests, Am. Locomotive Co., Cor. Union St. and Brandywine Ave., Schenectady, N. Y.
- Klingel, Louis, Jr., B.L., LL.B., Lawyer, Belleville.
- Lamkin, Nina Belle, B.L., 4323 Lake Ave., Chicago.
- Levy, Alexander, B.S., Architect, 5404 Prairie Ave., Chicago. (616, 112 S. Clark St.)
- Loomis, Arthur Bates, B.S., M.C.E., Ass't Engineer, St. Louis, Mo. (Terminal R. R. Ass'n.)
- McCartney, William Priestly, M.S., LL.B., Lawyer, 1153 Broadway, Paducah, Ky. (123 S. 4th St.)
- McCloy, Robert Emmet, B.L., LL.B., Lawyer, Blue Island. (500, 315 Dearborn St., Chicago.)
- \*McClure, Clyde Benjamin, B.S., died at Tuscaloosa, Ala., Feb. 26, 1901.
- McGee, Walter Scott, B.S., Teacher in Hyde Park High School, 5532 Madison Ave., Chicago.
- McMains, Louis, B.S., Lawyer, Crawfordsville, Ind. (3-4 Fisher Bldg.)
- Mann, Mary Estelle, B.L., Mrs. C. W. Carter, Aledo.
- Mathews, Loueva Mae, Mrs. W. A. Nicolaus, 601 W. Elm St., Urbana.
- Metcalf, James David, B.S., Cashier Shipman Banking Co., Shipman.
- Millar, Clendon Vanmeter, M.S., Assayer and Analytical Chemist, 320 N. Byers St., Joplin, Mo. (417 Joplin St.)
- Mosier, Jeremiah George, B.S., Instructor in Soil Physics, U. of I., Urbana.
- \*Peterson, Adolph Bertinus, B.S., died at Chicago, Nov. 23, 1899.
- Peterson, Sophie May, B.L., Mrs. J. L. Parr, 203 Cutler St., Peoria.
- Phillips, James David, B.S., Ass't Professor of Mechanical Drawing, Univ. of Wis., Madison, Wis.
- Powers, William Ambrose, B.S., Chief Chemist, 1012 Taylor St., Topeka, Kas. (A. T. & S. F. R. R. Co.)
- Rea, Alfred Willemin, B.S., Architect, Joplin, Mo. (Garstang & Rea, 204 Grome Bldg.)
- Rowe, William Briggs, A.B., Farmer, Freeport, Kas.



- Russell, Charles Wesley, A.B., Farmer, Virginia.
- Scott, Donald Gamaliel, B.S., Chief Eng'r Caldwell & Drake Iron Wks., Columbus, Ind.
- Seaman, George Washington, M.E., Mechanical Draftsman, Port Huron, Mich. (Port Huron Engine and Thresher Co.)
- Sharpe, Richard W., M.S., Instructor in Biology and Physics in High School, Wilmette.
- Shiga, Shigetsura, B.S., Professor of Architecture, Tokio College of Technology, Asakusa, Tokio, Japan.
- Skielvig, Severin Canute, B.S., Architect, Skielvig & Bristol, 407 Trust Bldg., Dallas, Texas.
- \*Spalding, Fred Milton, B.S., died at Gibson City, Aug. 28, 1897.
- Stewart, John Truesdale, B.S., Capt., Civil Engineer with U. S. Geological Survey, Paxton.
- Swenson, Bernard Victor, B.S., E.E., Ass't Professor of Electrical Engineering, Univ. of Wis., Madison, Wis.
- Thompson, Almon Daniel, C.E., Contracting Engineer, 304 Masonic Temple, Peoria.
- Townsend, William, B.S., Mgr. Bostedo Pneumatic Tube Co., 1371 Rokeby St., Lake View, Chicago. (1030 Nat'l Life Bldg., La Salle St.)
- Vial, Robert Clarke, B.S., Farmer, Western Springs.
- Woodruff, Thomas Tyson, B.S., Electrical Engineer, with British Thomson-Houston Co., Rugby, Eng.
- Young, Orres Ephriam, B.L., Associate Editor *Michigan Farmer*, 81 Lincoln Ave., Detroit, Mich. (Lawrence Publishing Co.)

#### CLASS OF 1894

- Atwood, Levi Patten, B.S., Sup't R. G., S. M., & P. R. R. Nueva Casas Grandes, Chihuahua, Mexico. (Box 687 El Paso, Tex.)
- Babcock, Clyde Leslie, B.S., Secretary of Updike Grain Co., 548-552 Bee Bldg., Omaha, Neb.
- Barker, Louis William, B.S., Pres. Sparta Gas & Electric Co., Sparta.
- Baumann, Otto, with Baumann & Crittenden, Blackstone Bldg., Quincy.
- Beasley, Harrison Easton, B.S., City Engineer, 721 Fayette St., Peoria. (City Hall.)
- Boggs, Lucinda Pearl, A. B., 811 W. Illinois St., Urbana.
- Braucher, Herbert Hill, B.S., Teacher of Science in High School, 227 Lincoln Ave., Lincoln.
- Browning, Howard Allen, B.S., Farmer, Elgin.

- Bush, Arthur Willis, B.S., Assayer, Leadville, Colo.  
Butterfield, Clarence James, B.S.  
Chipman, Paul, B.S., Ass't Eng. Pere Marquette R. R., 200 La Fayette Ave., Detroit, Mich. (222 Ft. St. Depot.)  
\*Clark, Amos Cable, B.S., died at Urbana, Jan. 29, 1896.  
Coffman, Birch David, B.S., Salesman, 730 N. Randolph St., Champaign.  
Crawford, Thomas, B.S., Sup't of Sterling Gas & Electric Light Co., Sterling.  
Dickinson, Richard Jay, B.S., with Dickinson & Co., Cannery, Eureka.  
Eakle, Silas Jackson, B.S., Principal of High School, Antioch.  
Engberg, Martin Jonas, B.S., Publisher, The Engberg-Holmberg Publishing Co., Chicago.  
Ferris, Hiram Burns, A.B., Treas. Spokane Traction Co., Spokane, Wash. (415 Fernwell Bldg.)  
Foote, Ferdinand John, B.S., with Bullock Electric Mfg. Co., Cincinnati, O.  
Foster, Alfred Bradford, B.S., Fruit Grower, Kibbie, Mich.  
Frederickson, George, Manager Frederickson & Kroh Music House, 511 W. 13th St., Oklahoma City, Okla. (210 W. Main St.)  
Frye, Theodore Christian, B.S., Ph.D., Professor of Botany, Univ. of Wash., Univ. Sta., Seattle, Wash.  
Gaut, Robert Eugene, B.S., Chief Draughtsman, I. C. R. R., 6415 Minerva Ave., Chicago. (Park Row.)  
Goldschmidt, Otto Emil, B.S., Eng'r, with G. A. Fuller Co., 2 Montclair View Pl., Montclair, N. J. (Fuller Bldg., New York, N. Y.)  
Hallinen, Joseph Edward, B.S., Instructor in Science in High School, Great Falls, Mont.  
Heideman, George Herman, B.S., Manager Lake View Office, Chicago Telephone Co., 1288 Wilton Ave., Chicago. (1197 Sheffield Ave.)  
Holbrook, Frederick Samuel, B.S., American Smelting & Refining Co., National Plant, 6334 Yale Ave., Englewood Station, Chicago.  
Holston, Benjamin Baldwin, B.S., LL.B., Lawyer, Nashville.  
Hottes, Charles Frederick, M.S., Ph.D., Ass't Professor of Botany and Ass't in Botany in A. E. S., U. of I., 915 W. California Ave., Urbana.

Jansen, Dietrich Herman, B.S., Civil Engineer and City Engr., also of Jansen & Zoeller, Mnfrs. of Tile and Brick and Gen'l Contractors, Pekin.

Jasper, Thomas, B.S., Sec'y Geo. Ertel Co., Quincy.

Johannsen, Albert, B.S., Ph.D., Ass't Geologist U. S. Geological Survey, 1715 U St., Washington, D. C.

Johannsen, Oskar Augustus, B.S., A.M., Instructor in Civil Engineering at Cornell Univ., 324 Huestis St., Ithaca, N. Y.

Kennedy, John William, B.S., Architect and Sup't, Collinsville. (East St. Louis.)

Kerchner, Fred William, M.D., Physician, Miltstadt.

Kimball, Conrad Bryant, B.S., 69 Walnut St., Montclair, N. J.

\*Lowry, John Albert, B.S., died at Gibson City, Nov. 19, 1900.

McCaskrin, Harry Madison, B.S., LL.B., Lawyer, 2512 8½ Ave., Rock Island. (Bengston Blk.)

McCaskrin, Louise Elizabeth, B.S., Mrs. J. D. Stayton, St. Joseph.  
McConnell, Ernest, B.S., Architect, Arvada, Colo. (409 Jackson Blk., Denver, Colo.)

McCormick, Flora, B.L., 602 E. Green St., Champaign.

McNutt, John, Jr., B.L., Lawyer, Mattoon.

Miller, Grant Clark, M.Arch., Patton & Miller, Architects, Hinsdale, (1305 153 LaSalle St., Chicago.)

Mogensen, Peter, B.S., Civil Engineer, in charge of the construction of locks and dams on the Tombigbee and Warrior Rivers, Demopolis, Ala.

Morris, Edgar William, B.L., LL.B., Lawyer, Quincy, Wash.

Morrissey, Daniel C, B.L., LL.B., Lawyer, Champaign. (Imperial Bldg.)

Nelson, Elnathan Kemper, B.S., Ass't Sup't Morris & Co., 4215 Berkeley Ave., Chicago.

Nichols, Maude E, B.S., M.D., Physician, in Syrian Mission Joppa, Palestine.

Parry, Joseph Lawrence, B.L., Locomotive Fireman, 204 N. Elm St., Centralia.

Phelps, Albert Charles, B.S., M. Arch., Instructor of Architecture, 306 Huestis St., Ithaca, N. Y.

Riley, Walter Busey, B.L., LL.B., Lawyer, 701 W. University Ave., Champaign. (19 Main St.)

Rutledge, John Joseph, B.L., Graduate Student in Geology, Johns Hopkins Univ., Alton.

Schneider, Albert, M.D., Ph.D., California Coll. of Pharmacy, 2429 Haste St., Berkeley, Cal. (Parnassus Ave., San Francisco.)

Shawhan, Gertrude, B.L., B.L.S., Teacher of Library Management, Kas. State Normal School, Emporia, Kas.

Slater, William Frederick, B.S., D.O., Physician, 241 S. Oakley Bvd., Chicago. (497 W. Monroe St.)

Spurgin, William Grant, A.M., Lawyer, 909 W. Illinois St., Urbana. (City Hall.)

\*Stocker, Edwin Warren, B.S., died at Rock Island, Sept. 16, 1894.

Strauss, William, B.S., with Michigan Portland Cement Co., Coldwater, Mich.

Sy, Albert Philip, M.S., Chief Chemist, Sandy Hook Proving Ground, Long Branch, N. J. (Sandy Hook, N. J.)

\*Tackett, William C, B.L., died at Chicago, Feb. 5, 1897.

\*Templeton, Benjamin Franklin, died at Marion, Ind., Jan. 9, 1900.

Tower, Willis Eugene, B.S., Teacher in Englewood High School, 444 N. Normal Parkway, Chicago.

Trego, Charles Henry, B.S., Farming, Imperial, Cal.

Walton, Percy Thomas, Draftsman, 3450 Lawton Ave., St. Louis, Mo. (Stupp Bros. Bridge & Iron Co.)

Weaver, Leslie Alvord, B.L., Lawyer, 507 W. Park St., Champaign. (18 Main St.)

Weedman, Fred John, B.L., Freight Claim Dep't I. C. R. R., 6551 Lexington Ave., Chicago. (305 Park Row Station.)

Wilder, Charles Thornton, B.S., Champaign.

Wood, Robert Alvin, M.E., Agent for British Luxfer Prism Co., 33 N. Oakland Sq., Pittsburg, Pa. (326 4th Ave.)

\*Woolsey, Ola C, M.L., Mrs. W. D. Gibbs, died at Columbus, Ohio, June 11, 1899.

#### CLASS OF 1895

Arms, Herbert Clarke, B.S., Vice Pres. Central Scientific Co., 5410 Washington Ave., Chicago. (14-28 Michigan St.)

Barry, Charles, B.S., with International Harvester Co., 380 Sheffield Ave., Chicago. (16 Fullerton Ave.)

Baum, Harry William, B.S., Ass't Engineer, Maintenance of Way, Kansas Div. U. P. R. R., Abilene, Kas. (General Offices U. P. R. R., Kansas City, Mo.)

Beach, Charles Worth, B.S., Civil and Irrigation Engineer, Las Animas, Colo.

- Beebe, Fred Albert, B.S., Ass't Local Mgr., 997 Warren Ave., Chicago. (Care Griffin Wheel Co., Sacramento Sq.)
- Boon, William Guthrie, B.S., with C. B. & Q. R. R., 981 Washington St., Burlington, Ia.
- Bower, Robert Allen, B.L., Bank of Tolono, Tolono.
- Burdick, Charles Baker, B.S., Civil Engineer, 127 Hartford Bldg., Chicago.
- Burrill, William Thomas, B.S., Contracting Eng'r for Minneapolis Steel and Mach'y Co., 1616 Madison St., Seattle Wash. (222 Globe Bldg.)
- Busey, Frank Lyman, M.E., Dry Goods Merchant, 203 W. Green St., Urbana. (127-129 Main St.)
- Call, Hortense, B.S., Mrs. Andrew Barr, Urbana.
- Campbell, George Henry, M.L., Lawyer, Woolner Blk., Peoria.
- Capps, Earl Vanhise, E.E., A.M., Capt., President and Owner of Blair Electric Light and Power Co., Blair, Neb.
- Carberry, Ray Shepard, B.S., Ass't Engineer Wabash R. R., Mansfield. (Bement.)
- Carmack, Clyde Robert, B.S., Sup't Benzie Co. Canning Co., Frankfort, Mich.
- Clement, Clarence Adelbert, B.S., U. S. Junior Eng'r, 104 Wisconsin Ave., Peoria. (U. S. Engineers' Office, 1515 N. Monroe St.)
- Clinton, John DeWitt, B.S., Polo.
- Dillon, William Henry, B.S., Architect, Detroit, Mich.
- Donnan, Alexander, B.S., Architect, Netcott & Donnan, Independence, Iowa.
- Duffy, Sherman Reilly, B.L., Newspaper Man, 269 Erie St., Chicago. (Inter Ocean.)
- Fellheimer, Alfred, with Reed & Stem, Architects, 500 W. 143d St., New York, N. Y. (5-7 E. 42d St.)
- Ferris, Joel Edward, A.B., Lawyer, 2904 Charlotte St., Kansas City, Mo. (309-11 Fidelity Trust Co. Bldg.)
- Funston, Jesse Grant, B.S., Sup't and Electrical Engineer, 103 N. 17th St., St. Joseph, Mo. (Citizens' Telephone Co.)
- Green, James Albert, B.S., Capt., Locomotive Eng'r, I. C. R. R., 309 E. White St., Champaign.
- Green, Marianna, B.L., Mrs. W. L. Steele, 200 Franklin Ave., Wilkensburg, Pa.
- Hall, Emery Stanford, B.S., Architect, 1483 W. Monroe St., Chicago. (919, 153 La Salle St.)

- Harms, Armin, B.S., Chemist, Care Velardena Mining & Smelting Co., Velardena, Durango, Mexico.
- Hempel, Adolph, M.S., Entomologist and Plant Pathologist, Caixa de Correo No. 7 Refining Co., Campinas, Sao Paulo, Brazil.
- Hiles, Elmer Kirkpatrick, B.S., Gas Engine Dep't, 3 Morrow St., Pittsburg, Pa. (Care Westinghouse Machine Co., E. Pittsburg.)
- Hoag, Parker Hale, A.B., Lawyer, 3210 Calumet Ave., Chicago. (100 Washington St.)
- Holtzman, Stephen Ford, B.S., Supervising Architect, Treas. Dep't Office, 14 The Lincoln, Washington, D. C. (702 17th St., N. W.)
- Hunt, Ernest Alexander, B.S., M.D., Physician, Melbourne, Iowa.
- Junkersfield, Peter, B.S., Ass't Mechanical Engineer, Chicago Edison Co., 320 S. Prairie Ave., Austin Sta., Chicago. (139 Adams St.)
- Keeler, Frederick Blair, B.S., Building Contractor, Earlville.
- Ketchum, Milo Smith, C.E., Contracting Manager Am. Bridge Co., Kansas City, Mo. (704 Postal Telegraph Bldg.)
- Kimball, William Haven, B.S., Electrician, with Union Iron Works, 1027a Valencia St., San Francisco, Cal.
- King, Francis Edward, M.S., Farmer and Teacher, Grandview Farm, R. F. D. 2, Fremont, Mich.
- Lake, Edward John, B.S., Ass't Professor of Art and Design, Univ. of Ill., 311 W. Columbia Ave., Champaign.
- Lemen, William Clarence Smith, B.S., U. S. Junior Eng'r, U. S. Engr's' Office, Savannah, Ga.
- Llewellyn, David Rossiter, B.S., Draftsman, Am. Bridge Co., Chicago.
- Long, Albert Milton, B.S., Draftsman, 339 Bowen Ave., Chicago. (37th St. and Stewart Ave.)
- Mann, Edward Loring, B.L., Lawyer, 614 Monroe Ave., Chicago. (Ashland Blk.)
- Marsh, Rev. Horatio Richmond, B.S., M.D., Capt., Medical Missionary, Pt. Barrow, Alaska.
- Mather, Fred Elbert, B.S., Draftsman, with Am. Bridge Co., 5703 Callowhill St., Pittsburg, Pa. (Ambridge, Pa.)
- Maxon, Robbins Yale, B.S., Ass't Engineer, C. & E. I. R. R., 253 Belden Ave., Chicago. (602 LaSalle St. Station.)
- Moore, Grace Lillian, M.S., Teacher of Biology in LaSalle-Peru High School, Tolono. (LaSalle.)

- Morrison, William Robert, B.S., Sup't Wichita Railroad & Light Co., Wichita, Kas.
- Munn, Alexander Majors, B.S., Capt., Gen'l Manager Nebraska City Telephone Co., Nebraska City, Neb.
- Noble, Charles William, B.S., Capt., Sup't Building Construction, 327 Dayton St., Chicago.
- Pillsbury, Arthur Low, B.S., Architect and Civil Engineer, 109 Olive St., Bloomington. (Griesheim Bldg.)
- Pillsbury, Bertha Marion, A.M., Teacher of English in Academy, U. of I., 506 W. Elm St., Urbana.
- Quade, John Conrad, B.S., Civil Engineer, with Western Tube Co., Kewanee.
- Reeley, Thomas Washington, B.S., Architect, 602 Central Ave., Fort Dodge, Iowa.
- Reeves, Harley Edson, B.S., Capt., U. S. Junior Eng'r, Mineral.
- Rowe, Herbert Brunskill, B.S., Proprietor Palace Drug Store, 201 Central Ave., Paris. (N. W. Corner Public Square.)
- Royer, Joseph William, B.S., Architect, 307 Coler Ave., Urbana. (Stephens Bldg.)
- Roysdon, William Ira, B.L., Transfer Business, 412 W. Clark St., Champaign. (17 Fremont St.)
- Sayers, Albert Jefferson, B.S., Ass't Eng'r, 518 W. 66th St., Chicago. (Link Belt Machinery Co.)
- Scott, Daisy Coffin, B.L., 721 W. Church St., Champaign.
- Scott, William John, B.L., 721 W. Church St., Champaign.
- Scurlock, Henry Harrison, B.L., Real Estate and Collections, 346 S. Union St., Decatur. (122 N. Water St.)
- Seastone, Charles Victor, B.S., Ass't Professor in Sanitary Eng'g, Purdue Univ., 115 E. Columbia St., W. Lafayette, Ind.
- Shepardson, John Eaton, B.S., Capt., Graduate Student, Columbia Univ., 227 W. 122d St., New York, N. Y.
- Sparks, Marion Emeline, A.M., B.L.S., 1205 Springfield Ave., Urbana.
- Spencer, Bertha, B.L., Mrs. E. S. Miner, Wilsey Pl., Kewanee.
- Sperling, Godfrey, B.S., Civil Eng'r, Box 835, Boise, Idaho.
- Stark, Robert Watt, B.S., Chief Ass't in Chem. on State Water Survey, U. of Ill., 603 E. Daniel St., Champaign.
- Stewart, Mabel, B.S., Mrs. C. N. Cole, 45 King St., Oberlin, O.
- Thomas, Homer, B.S., Estimator, with Minneapolis Steel & Mach'y Co., 61 E. 9th St., Minneapolis, Minn.

- Thompson, Marion, M.L., Mrs. Benj. Gratz, 3658 Pine St., St. Louis, Mo.
- Vance, Walter Noble, B.S., Capt., Designing Eng'r, 48 Bellevue Pl., Chicago. (75 N. Clinton St.)
- Webster, Charles Carlton, B.S., Ass't Chief Eng'r, with Schnectady R'y Co., 3 Waldorf Pl., Schnectady, N. Y. (Dock St. Power Sta.)
- Williams, Parker Merrill, B.S., Draftsman, 357 LaSalle Ave., Chicago. (91 Illinois St.)
- Yeakel, William Kriebel, B.S., M.D., Instructor and Physician, 1239 W. Berteau Ave., Chicago.

#### CLASS OF 1896

- \*Adams, Edward Langford, B.S., died Jan. 31, 1902, at Austin.
- Alpiner, Amelia Darling, A.B., Mrs. A. L. Stern, Champaign.
- Beach, James George, B.S., Engineer for Geo. A. Fuller Co., Contrs, 121 Murray St., Binghamton, N. Y. (N. Am. Bldg., Philadelphia, Pa.)
- Begole, Joshua Franklin, B.S., in charge of Electrical Instrument Dep't, O'Fallon. (Wagner Electrical Mfg. Co., 2017-21 Locust St., St. Louis, Mo.)
- Bennett, Georgia E, B.S., Teacher in John Marshall High School, 5759 Rosalie Ct., Chicago.
- Besore, Nellie, A.B., Mrs. W. E. Sears, 82 Fenelon Pl., Dubuque, Ia.
- Blakeslee, James Woodbury, B.L., Traveling Salesman for The Paddock-Hawley Iron Co. (of St. Louis, Mo.) Kinmundy. (Springfield, Mo.)
- Brenke, William Charles, M.S., Instructor in Math., U. of I., 1005 W. Oregon St., Urbana.
- Burt, Henry Jackson, B.S., Ag't Am. Bridge Co., 381 4th St., Salt Lake City, Utah. (520 Dooley Blk.)
- Cairns, Cora Mae, A.B., Mrs. N. F. Marsh, Los Angeles, Cal.
- \*Campbell, Walter Gilbert, E.E., died at St. Paul, Minn., June 6, 1903.
- Carnahan, David Hobart, A.M., Ass't Professor of Romanic Languages, U. of I. (On leave, Graduate Student at Yale U.)
- Chatten, Melville Clarke, B.S., Draftsman, 440 Dearborn Ave., Chicago. (Frost & Granger, Architects.)
- Clarke, Florence Besançon, B.S., Mrs. John Michalek, Chicago Heights.
- Cole. Mary Maude, A.M., Mrs. G. H. Scott, Yankton, S. Dak.



- Cooper, Paul Henry, Jr., B.S., Mercantile Business, Aurora.
- Durstine, Warren Edward, B.S., Teacher in High School, 310 Nicholson St., Joliet.
- Estee, Henry Clarence, B.S., Draftsman, with C. & N. W. R'y, 206 Prairie Ave., Austin, Chicago. (21 Marine Bldg.)
- \*Everett, Frank Milton, B.S., died at Quincy, Aug. 8, 1897.
- Folger, Rachel Ellen, B.S., Mrs. R. H. Rhumphrey, Lovee, Ind.
- Forbes, Bertha Van Hoesen, B.S., Teacher in S. Div. High School, 4059 Lake Ave., Chicago.
- Garnett, Charles Hunter, A.M., LL.B., Lawyer, Carthage.
- Gazzolo, Frank Henry Serafino, B.S., A.M., Chemist and Wholesale Drugs and Chemicals, 95 Astor St., Chicago. (82 W. Madison St.)
- Green, Frank Hopkins, B.S., Capt., Civil Engineer, with Santa Fe R. R., Ivesdale. (Eureka, Cal.)
- Green, Herbert John, B.S., Instructor in Manual Training, 4250 St. Lawrence Ave., Chicago. (Richard T. Crane Manual Training High School.)
- \*Haskell, Howard Hall, B.S., died at Mendota, June 5, 1901.
- Hindman, John, A.B., Advertising Agent, 1886 Diversey St., Chicago. (Tribune Bldg.)
- Honens, Fred William, B.S., U. S. Civil Eng'r, Sterling. (U. S. Engineers' Office.)
- Hottes, Henry Gustav, B.S., Furniture Dealer, Mascoutah.
- Hubbard, George David, M.S., Ass't in Physiography, Cornell Univ., 401 S. Aurora St., Ithaca, N. Y.
- Huston, Fred Thales, B.S., Stock Raising and Shipping, Arapaho, Okla.
- Johnson, Lewis Williams, A.B., Interurban R'y Construction, Danville.
- Keeler, Harry, B.S., Ass't Englewood High School, 9654 Longwood Ave., Chicago.
- Kent, Louis Maxwell, A.B., LL.B., Lawyer, 408 N. Hazel St., Danville. (411 Temple Bldg.)
- Ketchum, Richard Bird, C.E., Ass't Engineer O. S. L. R. R., 31 Alameda Ave., Salt Lake City, Utah.
- Kiler, Aureka Belle, A.B., Teacher, 303 North St., Urbana. (Lake Forest.)
- Leal, Sophia Nott, A.B., Teacher, Danville High School, 926 W. Green St., Urbana. (15 N. Gilbert St., Danville.)

- Lewis, Charles Milton, B.S., Architect, Press Bldg., Danville. (312-14 Temple Bldg.)
- Liese, George Charles, B.S., Architect, Danville. (128 N. Vermilion St.)
- Linn, Homer Roberts, B.S., Western Mgr. The O. M. Edwards Co., 6422 Jackson Ave., Chicago. (501 Fisher Bldg.)
- Ludwick, George Washington, B.S., Architect, Danville. (128 N. Vermilion St.)
- McKee, James Harry, M.E., Capt., Chief Draftsman, 75 W. 150th St., Harvey.
- McRae, John Alexander, B.S., Draftsman, with N. Y. C. & H. R. R. (610 Grand Central Station, New York City.)
- Manard, Robert Payton, B.S., Draftsman, with D. H. Burnham & Co., 578 E. Division St., Chicago. (The Railway Exchange.)
- Marble, Harry Curtiss, B.S., with Twin City Electric Co., 305 W. University Ave., Champaign.
- Martin, John Madison, A.B., Teacher in Brown's Business Coll., 1009 Glendale Ave., Peoria.
- Mather, Althea S., A.B., Mrs. W. E. Durstine, 310 Nicholson St., Joliet.
- Maxwell, Charles Jacob, B.S., Chemist, with Darling & Co., 4647 Calumet Ave., Chicago. (42d St. and Ashland Ave.)
- Meneely, John Henry, A.M., Instructor in English in Manual Training School, 175 Hicks St., Brooklyn, N. Y.
- Milne, Edward Lawrence, M.S., Instructor in Mathematics, U. of Ill., 307 W. Hill St., Champaign.
- Moore, Minnie Rose, A.B., 656 W. 16th St., Los Angeles, Cal.
- Morse, Jedidiah D, B.S., Ass't Cashier, with E. J. Morse & Son, Bankers, Gifford.
- Morse, Samuel Theodore, B.S., Civil Engineer, with C. & E. I. R. R., Carlinville.
- Myers, James William, B.L., Teacher, Iona, Idaho.
- Noble, Isabelle, A.B., Wichita, Kas.
- Noble, Mary Elizabeth, A.B., Wichita, Kas.
- Noble, William, A.B., Grain Dealer, Foosland.
- Orr, Edward Ellsworth, B.S., with Holabird & Roche, 1618 Monadnock Bldg., Chicago.
- Pfeffer, John Edward, B.S., Eng'r and Designer, Gasoline Engines and Automobiles a Specialty, 301 Webster Ave., Chicago. (Same and 429 St. Joseph St., S. Bend, Ind.)
- Phillippi, Francis Marion, A.B., Law Student, Colusa.

- Porter, Robert Knight, A.B., Capt., Prescott, Ariz.
- Reasoner, Matthew Aaron, B.S., M.D., Physician, Morrisonville.
- Row, George Edward, B.S., Chief Eng'r Paxton & Vierling Iron Wks., Omaha, Neb.
- Sample, John Calvart, B.S., Structural Engineer, 2531 Magnolia Ave., Chicago.
- Saunders, Harry J, B.S., Dermatologist, 5430 Armour Ave., Chicago. (163 State St.)
- Scott, George Harvey, A.M., Professor of Math. and Astronomy, Yankton Coll., Yankton, S. Dak.
- Shea, John Clark, B.S., Paving Brick Manufacturer, Danville. (Danville Brick & Tile Co.)
- Simons, Alexander Martin, B.S., Teacher of Mathematics, Quincy High School, 401 S. 12th St., Quincy.
- Smith, Sherman, B.S., Ranchman, Western Park, Kas.
- Steele, William LaBarthe, B.S., Architectural Draftsman, 200 Franklin Ave., Wilksburg, Pa. (341 6th Ave., Pittsburg.)
- Stone, Percy Allyn, B.S., Farmer, Springfield, R. R. No. 4.
- Strehlow, Oscar Emil, B.S., U. S. Ass't Eng'r, Demopolis, Ala. (U. S. Engineers' Office.)
- Sweney, Don, B.S., Ass't Road Foreman of Engines, 171 S. Cedar St., Galesburg. (C. B. & Q. R. R., Galesburg.)
- Thompson, Fred Lawrence, B.S., Roadmaster, I. C. R. R., Isabel. (Louisville, Ky.)
- Van Ostrand, Charles Edwin, M.S., Ass't Physical Geologist, 1607 31st St., Washington, D. C. (U. S. Geological Survey.)
- Vickery, Charles Roy, A.B., M.D., Physician, Valparaiso, Ind. (29 N. Washington St.)
- Weinshenk, Theodore, B.S., Mechanical Engineer, 1507-1510 Monadnock Bldg., Chicago.
- Wharton, Rebecca Gaskin, A.B., Instructor in Latin, High School, Aurora.
- White, Solon Marx, B.S., M.D., Ass't Professor of Pathology and Bacteriology, Univ. of Minn., 617 14th Ave., S. E., Minneapolis, Minn. (812 Pillsbury Bldg.)
- Whitham, Myron Elwin, B.S., with R. D. Wood & Co., 400 Chestnut St., Philadelphia, Pa.
- Williams, Robert, A.B., M.D., Physician, Alden, Minn.
- Wright, Wilber Hoyt, A.B., Teacher of Science in High School, Ft. Dodge, Ia.

## CLASS OF 1897

- Ammerman, Charles, A.M., Teacher, McKinley High School, 2236a S. Jefferson Ave., St. Louis, Mo.
- Anderson, George Forbes, B.S., Capt., Office Mg'r with Chief Mg'r, S. F. P. & P. R'y, 140 S. Summit St., Prescott, Ariz.
- Armstrong, James Ellis, A.B., B.S., Bondville.
- Barr, George Andrew, A.B., Lawyer, 306 3d Ave., Joliet. (Young Bldg.)
- Beadle, Thomas B, B.S., Architect, Kewanee.
- Beal, Alvin Casey, B.S., Capt., Instructor in Floriculture, U. of I., 514 E. Daniel St., Champaign.
- Beebe, Charles David, B.S., Gen'l Foreman of Construction, 811 University Pl., Evanston. (Swift & Co., Ft. Worth, Tex.)
- Brandt, Eugene Herman, B.S., Ass't State Architect, 1621 Locust St., Lincoln, Neb. (State Capitol.)
- Braucher, Ralph Waldo, B.S., Horticultural Inspector, 307 Pine Ave., Austin Sta., Chicago. (Urbana.)
- \*Brower, Ralph Plumb, B.S., Capt., died at Lake Tahoe, Cal., Aug. 8, 1902.
- Brown, Walter Burrows, B.S., Sup't Victor Chemical Wks., Chicago Heights.
- Buck, Luella Eugenia, B.S., Mrs. H. R. Linn, 6422 Jackson Ave., Chicago.
- Capron, Frank Read, B.S., U. S. Railway Mail Service, 372 E. Ontario St., Chicago.
- Carpenter, Hubert Vinton, M.S., Professor of Mechanical and Electrical Eng'r, Agr'l and Mech. Arts Coll., Pullman, Wash.
- Chester, Manley Earle, B.S., Telephone Engineer, 463 West St., New York, N. Y.
- Clarke, Octave Besançon, B.S., Ass't Resident Eng'r, Union Elect. Light & Power Co., 4867 Fountain Ave., St. Louis, Mo.
- Cole, Charles Nelson, A.M., Ph.D., Professor of Latin, Oberlin Coll., 45 King St., Oberlin, O.
- Crellin, Charles Virgil, B.S., Mfr. Novelties; Electrical Eng'g Work a Specialty, 509 E. 32d St., Los Angeles, Cal. (641-3 N. Main St.)
- Dewey, James Ansel, M.S., Farmer, Armstrong, R. F. D. 1.
- Dewey, Louise Sarah, M.S., 701 W. Green St., Urbana.
- Dull, William Raymond, B.S., Draftsman, 578 E. 65th St., Chicago. (39th St. and Stewart Ave.)

- Dunlap, Elmer Edgar, B.S., Architect, Columbus, Ind.
- Forbes, Ernest Browning, B.S., Ass't Professor of Animal Husbandry, Univ. of Mo., Columbus, Mo.
- Garber, John Frederick, A.B., Ph.D., Professor of Biology in State Normal School, River Falls, Wis.
- Gayman, Bert A, Ass't Eng'r, 5143 Wabash Ave., Chicago. (Link-Belt Machinery Co.)
- Gearhart, Orval Lee, B.S., City Eng'r, Champaign.
- Grimes, George Lyman, B.S., Pattern Dep't, Western Tube Co., 401 Tremont St., Kewanee.
- Gulick, Clyde Denny, B.S., M.D., Physician and Surgeon, Urbana. (115 S. Race St.)
- Hadsall, Harry Hugh, B.S., with Bridge Department, I. C. R. R., 703 Walnut St., Cairo. (Room 1000 Park Row Station, Chicago.)
- Havard, Oliver David, B.S., with Butler Bros., 3117 Lucas Ave., St. Louis, Mo. (Randolph Bridge, Chicago.)
- Hobart, Albert Claude, C.E., Resident Eng'r, U. S. Naval Coaling Sta., U. S. Navy Yard, Boston, 31 Monument Sq., Charlestown, Mass. (39 Cortlandt St., New York, N. Y.)
- Horn, Carl John, B.S., Architect, 1120 North St., Logansport, Ind. (Crawford Bldg.)
- Howison, Charles, B.S., Architect, Sandwich.
- Hughes, Frank Alexis, B.S., Eng'r of American Smelting and Refining Co., Monterey Plant, Monterey, Mexico.
- Ice, Meldora, Architect, 1114 6th Ave., Seattle, Wash. (Pacific Blk.)
- Jobst, George J, B.S., Contractor, V. Jobst & Sons, Peoria.
- Kerns, Shirley Kendric, A.B., Senior Master, Middlesex School, Concord, Mass.
- Kiler, William Henry, A.B., Lawyer, Los Angeles, Cal. (505 Bryson Blk.)
- King, Wesley, Edward, A.B., LL.B., Lawyer, 17 Davidson Pl., Champaign. (13 Main St.)
- Kirkpatrick, Harold H, A.B., Teacher, Deland.
- Kistner, Theodore Charles, B.S., Architect, Granite City.
- Klossowski, Theodore Julius, B.S., Eng'r in charge of building construction, 65 Lake St., Hull, Quebec. (Care International Portland Cement Co., Ottawa, Ont.)
- Kratz, Laura, A.B., Student at Art Institute, Chicago. (Monticello.)

- Kuehne, Carl, Oskar, B.S., Architect, 197 Bissell St., Chicago. (171 Center St.)
- Kyle, Martha Jackson, A.M., Instructor in Rhetoric, Univ. of Ill., 502 Goodwin Ave, Urbana.
- Lampe, Margaret Henriette Johanne, A.M., Principal of High School, 619 E. Chestnut St., Bloomington. (Chicago and Delaware Sts., Dwight.)
- \*Larson, Charles Sigurd, B.S., died at Chicago, Feb. 4, 1898.
- Leigh, Charles Wilbur, B.S., Capt., Instructor in Math., Armour Institute of Technology, 405 E. 64th St., Chicago.
- McFadden, Belle Lorraine, A.B., Teacher in High School, Champaign. (Gibson City.)
- Mann, Arthur Richard, B.S., Draftsman, with Link-Belt Mach'y Co., 4375 Normal Parkway, Englewood, Chicago.
- Manny, Fred Hugh, B.S., Real Estate and Loans, Mt. Sterling.
- Marsh, Loren William, B.S., Ag't for American Luxfer Prism Co., 15 Orchard Terrace, Arlington, Mass. (107-15 Federal St.)
- Marsh, Norman Foote, B.S., Architect, Los Angeles, Cal. (527 Byrne Bldg.)
- Middleton, Mrs. Earl W., B.L., 1509 N. Water St., Decatur.
- Millar, Adam Vause, B.S., Madison, Wis.
- Morgan, Walter Montgomery, A.B., Lawyer, Denver, Colo. (21-22 Bank Blk.)
- Munhall, Grace May, B.L., Mrs. S. T. Morse, Carlinville.
- Murphy, Francis Joseph, B.S., Chemistry, Jerome, Ariz.
- Nelson, Fred Irwin, B.S., Mgr. Keystone Novelty Wks., 2600 Indiana Ave., Chicago. (170 E. Madison St.)
- Nye, Carl Merriman, B.S., Ass't Engineer C. R. I. & P. R'y, Moline. (Room 815 LaSalle St. Sta., Chicago.)
- Parr, John Louis, B.S., Architect, 117 Behrends Ave., Peoria. (514 Y. M. C. A. Bldg.)
- Paul, Arthur Ernest, Ph.G., M.S., Chemist, Mariner & Hoskins Laboratory, 12 S. Elizabeth St., Chicago. (81 S. Clark St.)
- Pepper, William Allen, B.S., Accountant, 1003 Division St., Joliet. (Care Am. Can Co.)
- Pitney, Clarence Orville, B.S., Drug Clerk, Augusta.
- Plym, Francis John, B.S., Architect, Kansas City, Mo.
- Pohlman, John Edward, B.S., Ass't Eng'r, U. P. R. R., Elwood R. F. D. 19. (25 Union Depot, Denver, Colo.)
- \*Poole, Edward Warren, B.S., died at Dover, May 6, 1899.

- Porter, Horace Chamberlain, A.B., M.S., Ph.D., Capt., with the Solway Process Co., Syracuse, N. Y.
- \*Postlethwaite, Francis William Henry, B.S., died at Toronto, Canada, April 2, 1899.
- Randall, Dwight T, B.S., Ass't Professor of Steam Eng'g, U. of I., 608 S. Busey Ave., Urbana.
- Rayburn, Charles Clyde, B.S., M.D., Physician, Kewanee.
- Sammis, John Langley, M.S., Instructor in Chemistry, U. of I., 307 E. Springfield Ave., Champaign.
- Sayers, William Wesley, B.S., Draftsman, Hampden Flats, 39th St. and Langley Ave., Chicago. (Care Link Belt Mach'y Co.)
- Sayler, Joel Reynolds, B.S., Draftsman, Box 208, Scranton, Pa. (Del. & Hudson Co.)
- Schacht, Frederick William, M.S., Principal of High School, Tuscola.
- Scoggan, Edward Barker, A.M., Ph.D., M. E. Minister, Pilot Mound, Ia.
- Shepardson, Ralph Steele, B.S., Architect, Worst and Shepardson, Aurora. (341-342 Coulter Blk.)
- Smith, Louie, Henrie, M.S., Chief Ass't in Chem. and Plant Breeding, A. E. S., U. of I., 507 E. John St., Champaign.
- Spangler, John Nathaniel, A.M., School Sup't, Remington, Ind.
- Spencer, Fred Wilcox, B.S., Draftsman, 2794 St. Anthony Ct., Chicago. (Hansill-Elcock Fdy. Co., Archer Ave. and 23d Pl.)
- States, William Daniel, B.S., Farmer, Elwood.
- Steinwedell, George Otto, B.S., with Arrow Rock Mining & Milling Co., 515 N. 8th St., Quincy.
- Teeple, Wallace Douglas, B.S., Draftsman, 609 W. Wayne St., South Bend, Ind.
- Terry, Charles Dutton, B.S., with Western Tube Co., Kewanee.
- Thompson, Susan Elizabeth, A.B., Teacher in Burr School, Winamac, Ind. (Chicago.)
- Vail, Walter Cheney, B.S., Teacher of Manual Training, Kewanee. (LaSalle.)
- \*DeVries, Steven George, B.S., died at Pekin, June 8, 1897.
- Wakefield, George Mighell, B.S., Draftsman, with Morgan & Gardner Electric Co., 441 S. Normal Parkway, Chicago. (27th St. and Shields Ave.)
- Wallace, Hubert Milford, A.B., Principal of School, Sumas, Wash.
- Webber, Hubert Anthony, B.S., Sup't of Construction for U. S. War Dep't, Salem, N. J. (Ft. Mott, N. J.)

- Whittemore, Floyd, B.S., Care Marine Bank, Springfield.  
 Winter, Julia Flora, A.B., Teacher in Hampton Institute, Hampton Institute, Va.  
 Young, Charles Whittier, B.S., M.D., Resident House Officer, (Johns Hopkins Hospital, Baltimore, Md.)  
 Zilly, Mabel Helen, A.B., Mrs. Leroy F. Hamilton, Kewanee.  
 Zimmerman, Walter Herman, B.S., Gen'l Mgr. De Kalb-Sycamore Electric Co., 1st and Locust Sts., De Kalb.

#### CLASS OF 1898

- Aaron, Philip Judy, B.S., 3610 Lake Ave., Chicago. (Western Electric Co.)  
 Anderson, Clark Godfrey, B.S., Civil Engineer, 113 N. Orange St., Peoria.  
 Arnold, Jay Jennings, B.S., Land and Financial Agt., 4612 Washington Bvd., St. Louis, Mo. (601 Oriol Bldg.)  
 Beasley, D Edythe, A.B., Mrs. L. W. Goben, 1010 W. Green St., Urbana.  
 Beem, Fred Clarkson, B.S., Manager Clothing Store, Ottawa. (Fiske & Beem.)  
 Berry, Erwin Howard, B.S., Ass't Chemist, A., T. & S. F. R'y Co., 1006 W. 8th St., Topeka, Kas. (Mechanical Department A., T. & S. F. R'y Co.)  
 Black, William Wesley, A.M., Teacher Chicago Normal School, 6347 Stewart Ave., Chicago.  
 Breidert, Henry Cyrille, B.S., Structural Draftsman, 228 Central Ave., Cannonsburg, Pa. (Ft. Pitt Bridge Wks.)  
 Brockway, Edwin Ladue, B.S., Gen'l Feeder Foreman, Met. St. R. R. Co., 213 W. 104th St., New York City. (96th St. and 1st Ave. Power House.)  
 Brower, Lyle Ireneus, B.S., Director of Manual Training, Elgin Public Schools.  
 Byrne, Lee, A.M., Ph.D., Teacher in High School, 4012a Page Ave., St. Louis, Mo.  
 Chester, Guy Jacobs, B.S., Mechanical and Electrical Engineer, Chicago. (1140 Monadnock Bldg., Chicago.)  
 Clark, Charles Albert, B.S., 2d Lieut. 126th Co., Coast Artillery, U. S. A., Ft. Worden, Port Townsend, Wash.  
 Clark, Charles Richard, B.S., Draftsman, with D. H. Burnham & Co., 11732 Perry Ave., Chicago. (R'y Exchange Bldg.)



- Clayton, Thomas Wiley, B.S., Ass't Eng'r, C. & A. R'y, 2655 N. Robey St., Chicago. (441 Grand Central Sta.)
- Coffeen, Harry Clay, M.S., Instructor in Kinematics, Armour Institute, 3610 Lake Ave., Chicago.
- Collins, Edgar Francis, B.S., Foreman, Testing Department, Edison General Electric Co., 636 Terrace Pl., Schenectady, N. Y.
- Craig, Wallace, M.S., Graduate Student and Ass't in Zoölogy, Univ. of Chicago.
- Crathorne, Arthur R, B.S., Capt., Instructor in Mathematics, Univ. of Wis., Madison, Wis.
- Davison, Chester Morton, B.S., Student in Paris, Rock Falls.
- Dickey, James Harvey, B.S., Instructor in Mathematics in High School, Alton.
- Dillon, William Wagner, A.B., State College Secretary, Illinois Young Men's Christian Association, Normal. (153 LaSalle St., Chicago.)
- Eckles, Harry Edward, B.S., Architectural Engineer, Zion City.
- Edwards, Grace Osborne, B.S., B.L.S., Librarian, Superior, Wis.
- Enochs, Claude Douglass, B.S., Telephone Engineer, 244 W. 15th St., New York, N. Y. (Western Electric Co.)
- Enochs, Delbert Riner, A.B., LL.B., Capt., Lawyer, 6324 Normal Ave., Chicago. (800-802 Boyce Bldg.)
- Everhart, Rollin Orlando, A.B., Minister, Tolono.
- Fischer, Louis Engelmann, B.S., Manager Danville St. R'y & Light Co., and of Danville, Urbana & Champaign R'y Co., Danville.
- Forbes, Stuart Falconer, B.S., Architect, Douglas, Ariz. (Meguire Bldg.)
- Fox, Fred Gates, A.B., Instructor in Rhetoric, U. of I., 909 W. Oregon St., Urbana.
- Frazey, Alice Belle, A.B., Supervisor of Drawing, City Schools, 1307 W. Main St., Urbana. (1021 N. 7th St., Sheboygan, Wis.)
- Fullenwider, Arthur Edwin, B.S., Draftsman, 616 W. 65th Place, Chicago. (With D. H. Burnham & Co.)
- Fulton, William John, A.B., LL.B., Lawyer, Sycamore.
- Goodridge, Henry Anthony, B.S., Constructing Engineer, 149 S. Evans St., Denver, Colo. (The Lacombe Electric Co.)
- Hair, Charles Ernest, B.S., Architect, Iola, Kas.
- Hall, Frederick Silvey, A.B., LL.B., Lawyer, 807 Clarendon Ave., St. Louis, Mo. (915 Mo. Trust Bldg.)
- Hammers, Morgan J, B.S., Sup't Phoenix Iron Wks., Meadville, Pa.

- Hatch, Thomas Milford, B.S., Contractor, W. W. Hatch & Sons, 1601 S. 8th St., Goshen, Ind. (214 S. Main St.)
- Hays, Don, B.S., Chief Draftsman, C. R. I. & P. R'y, 409 K. C. Life Bldg., Kansas City, Mo.
- Hopper, Georgia Etherton, A.B., 521 E. 43d St., Chicago.
- House, Leone Pearl, A.B., Teacher, Sadorus.
- Hurd, Arthur Burton, B.S., Mechanical Draftsman, 61 Harrison Ave., Bellevue, Pa. (Chief Eng'rs Office, Pressed Steel Car Co.)
- Jordan, Helen, A.B., Savoy.
- Kaeser, Albert Fred, B.S., M.D., Physician and Surgeon, Corn Belt Bank Bldg., Bloomington.
- Kofoid, Nellie Ione, B.S., Mrs. W. W. Dillon, Normal.
- Kuykendall, Andrew Jackson, A.B., LL.B., Lawyer, Farmer and Implement Dealer, Vienna.
- \*Lentz, Caroline, A.B., died at Arcola, Sept. 9, 1899.
- Linn, Francis David, B.S., Farmer, Byron.
- Linzee, Albert Carl, B.S., Chief Eng'r, Akron Electric Mfg. Co., Akron, O.
- McCarty, Charles James, B.S., Sup't Rockford & Interurban R'y, 517 Mulberry St., Rockford.
- Marshutz, Joseph Hunter, A.B., LL.B., 431 Juneau Pl., Milwaukee, Wis. (916-26 Wells Bldg.)
- May, Harry Monroe, B.S., Capt., 206 E. Prospect St., Riverside, Cal.
- Merker, Henry Fleury, B.S., Eng'r, 326 Mo. Ave., East St. Louis.
- Mitchell, Frederick Alexander, B.S., Draftsman, with Am. Bridge Co., Rosedale Ave., Rosedale, Kas. (704 Postal Telegraph Bldg., Kansas City, Mo.)
- Morrow, Grace Eliot, B.S., Mrs. G. T. Seeley, 602 E. 50th St., Chicago.
- Musham, John William, B.S., 177 Rush St., Chicago.
- Naper, Herbert John, B.S., Architectural Eng'r, with Jenney & Mundie, 57 Delaware Pl., Chicago. (520 N. Y. Life Bldg.)
- Neureuther, Andrew Henry, M.E., Mechanical Engineer and Designer, with Western Clock Mfg. Co., Peru.
- Nevins, John, B.S., Architectural Draftsman, Box 46, Seattle, Wash.
- Nickoley, Edward Frederick, Teacher in Syrian Protestant College, Beirut, Syria.
- vonOven, Frederick William, B.S., Consulting and Constructing Engineer, N. Lake St., Aurora. (Love Bros.)

- Pease, Henry Mark, B.S., Mgr. Western Electric Co., Malta. (Care W. E. Co., North Woolwick, London, Eng.)
- Perkins, Reed Miles, A.B., LL.B., Ice and Coal Dealer, 10th and Jackson Sts., Springfield.
- Polk, Cicero Justice, A.B., with P. F. Collier & Son, 28 Belvidere St., Boston, Mass.
- Pooley, William Vipond, A.B., Graduate Student, Univ. of Wis. Galena.
- Ray, George Joseph, B.S., Division Engineer, D. L. & W. R. R., Scranton, Pa.
- Rhodes, Ora M, B.S., M.D., Capt., Physician and Surgeon, Corn-Belt Bldg., Bloomington.
- Robinson, Lewis Archibald, A.M., Instructor in Math. and Physics, Oregon State Normal School, Monmouth, Ore.
- Saunders, Rome Clark, B.S., Erecting Eng'r, Ft. Wayne Electric Wks., 1023 W. Jefferson St., Ft. Wayne, Ind.
- Shamel, Archibald Dixon, B.S., 1227 Princeton St., Columbia Heights, Washington, D. C.
- Soper, Stanley Livingston, A.B., Sup't Public Schools, Waterville, Kas.
- Spalding, Roy Verner, LL.B., Mgr. Premium Dep't, N. K. Fairbank & Co., 2362 N. 44th Ct., Irving Park.
- Staley, Joseph Clarence, A.M., Chester.
- Thayer, Albert Lewis, B.S., Architect, New Castle, Pa. (709 Trust Bldg.)
- Thompson, Guy Andrew, A.M., Instructor in Eng., Univ. of Me., Orono, Me.
- Toenniges, Ferdinand Frederick Emil, B.S., Resident Engineer, B. & O. R. R., Saratoga, N. Y. (Newton Falls, Ohio, care B. & O. R. R.)
- Unzicker, William Luther, A.B., Special Deputy Surveyor of Customs, Bachelors' Hotel, Omaha, Neb. (Room 204 Federal Bldg.)
- Walker, Rufus, Jr., A.B., Coal Business, 614 22nd St., Moline. (415 16th St.)
- Walter, Charles Albert, M.S., Ph.C., Phar.D., Sup't and Head Chemist McCoy Howe Co., and Dean Chem. and Pharm. Dep'ts Nat'l Cor. Schools, 317 E. North St., Indianapolis, Ind.
- Webster, Joshua Percy, B.S., Sup't Steel Buildings and Bridges, with W. W. Lindsay & Co., 3504 N. 16th St., Philadelphia. (Harrison Bldg.)

- Webster, Sarah Emeline, A.B., Director of Art Instruction in Public Schools, Lincoln, Neb.
- Wetzel, Clyde Leigh, Telephone Engineer, with Western Electric Co., 106 Waverly Pl., New York, N. Y. (463 West St.)
- Wharf, Allison James, B.S., Gen'l Foreman, Bridges and Bldgs., Neb. Div., U. P. R. R., 2518 Binney St., Omaha, Neb. (U. P. Freight Depot.)
- Williamson, Albert St. John, M.E., Capt., Ass't Sup't of Mchry, Mex. Cent. R'y, Aguas Calientes, City of Mexico, Mex.
- Wilson, Frederick Henry, B.S., Electrical Engineer on Battleship Kentucky. (Evanston, care W. C. Wilson.)
- Wingard, Lewis Forney, A.B., Lawyer, 407 N. State St., Champaign. (34 Neil St.)
- \*Wolcott, James Thompson, B.S., died at Ft. Worth, Tex., Feb. 9, 1904.
- Worthen, George Bedell, LL.M., Lawyer, 6026 Ellis Ave., Chicago. (Adams Ex. Co.)
- Woodworth, Minnie Barney, A.B., Mrs. J. H. Young, 127 S. 3d St., Burlington, Ia.
- Wray, David Couden, B.S., with Whitebreath Fuel Co. of Ills., 131 Clark Ave., Austin. (734 Rookery, Chicago.)
- Wuerffel, Herman Louis, B.S., Capt., Ass't Foreman, Eng'g Inspection Dep't, Western Electric Co., 1228 N. Sawyer Ave., Chicago.

#### CLASS OF 1899

- Anderson, Harry, B.S., Pacific States Telephone Co., San Francisco, Cal.
- Armstrong, Frank Hall, B.S., Master Mechanic, Republic Iron Co., Republic, Mich.
- \*Bayard, Samuel Michael, B.S., died at Vincennes, Ind., Sept. 19, 1901.
- Beckerleg, Gwavas Foster, B.S., Contracting Eng., 1434 Fulton St., Chicago.
- Bennett, Ralph, B.S., Chief Draftsman, with Edison Electric Co., 1026 S. Olive St., Los Angeles, Cal.
- Bennett, Ruth, A.B., Student at Johns Hopkins Medical School. 1711 9th Ave., San Francisco, Cal.
- Bevans, Thomas Archibald Murray, B.S., Teacher of Manual Training, 353 W. 60th Pl., Chicago.
- Bigelow, Mary Constance, A.B., 407 W. Washington St., Champaign.

- Bocock, Clarence Edgar, A.B., Teacher of Science in High School, Corning, Ia.
- Booker, Lucile Alice, A.B., Instructor of English, Stillwater, Minn.
- Bradley, James Clifford, B.S., Ass't Exam'r in U. S. Patent Office, 1207 N. J. Ave., N. W., Washington, D. C.
- Burkland, Theodore Leonard, B.S., Ass't Eng'r, Peoria Water Wks. Co., 129 N. Jefferson Ave., Peoria.
- Carson, Lucy Hamilton, A.M., Ph.B., Teacher, Dillon, Mont.
- \*Chipps, Halbert Lilly, B.S., died at Laramie, Wyo., Nov. 3, 1900.
- Chuse, Harry Arthur, B.S., Ass't Sup't for Chuse Engine Mfg. Co., Mattoon.
- Clark, Edith, A.B., B.L.S., Mrs. Frank Burr, 161 W. 11th St., Columbus, O.
- Clark, Mary Edith, Sheldon.
- Clark, Philip Henry, A.B., Sup't City Schools, Galena.
- Clifford, Charles Luther, B.S., Electrical Eng'r for U. S., Yellowstone Park, Wyo.
- Cooke, Jane Elizabeth, B.L.S., Cataloger, Library of Cong., Washington, D. C.
- Dinwiddie, Virginia, B.S., Mrs. C. E. Piper, 6046 Princeton Ave., Chicago.
- Dodds, George, B.S., Gen'l Test Foreman, with Bullock Electric Mfg. Co., Cincinnati, O.
- Donoghue, Richard Charles, LL.B., Lawyer, Hull & Donoghue, La Salle.
- DuBois, Alexander Dawes, B.S., Capt., with Western Electric Co., 7300 Yale Ave., Chicago. (259 S. Clinton St.)
- Eastman, Harry Truxtun, B.S., Junior Eng'r, U. S. Improvement Miss. R., 1108 1st Ave., Rock Island. (U. S. Eng'r's Office, La Crosse, Wis.)
- Ely, Howard Montgomery, B.S., with D. W. Mead, 417 Monroe St., Peoria. (605 First National Bank Bldg., Chicago.)
- Fairchild, Edna, B.L.S., The Lessing, Chicago.
- Fleager, Clarence Earl, B.S., 912 5th Ave., Seattle, Wash.
- Flesch, Eugene William Penn., B.S., Capt., Architect, 4102 Indiana Ave., Chicago. (50 Lake St.)
- Fletcher, Marcus Samuel, B.S., M.D., Physician, 305 The Temple, Danville.
- Foberg, John Albert, B.S., Instructor in Math., 651 Otto St., Chicago. (English High and Manual Training School.)

- Fowler, Robert Lambert, B.S., Capt., 1st Ass't Eng'r, P. V. Coal & Utah Fuel Co., 62 J St., Salt Lake City, Utah. (423 Dooly Blk.)
- Fraser, William Alexander Gordon, B.S., Capt., Master Mechanic, Flamio Fumes Co., Majavo, Cal.
- Garver, Daisy, A.B., Mrs. H. W. Baum, Abilene, Kas.
- Gerber, Winfred Dean, B.S., Acting Chief Eng'r, Denver, Enid & Gulf R. R., Rockford. (Blackwell, Okla.)
- Gilchrist, Hugh McWhurr, B.S., E.M., Mining Eng'r, Alden Coal Co., Gilchrist, Ill.
- Griffin, Walter Burley, B.S., Architect, Elmhurst.
- Grim, Fred, B.S., Draftsman, with E. C. & R. M. Shankland, 326 W. 65th St., Chicago. (1106 The Rookery.)
- Hall, Louis Dixon, B.S., Instructor in Animal Husbandry, U. of I., 403 W. Hill St., Champaign.
- Herwig, John Newton, B.S., Maintainer of Electric Signals, C. & A. R'y, Mason City.
- Hill, Irwyn Horatio, B.S., Draftsman, 313 N. J St., Joliet. (621 Provident Bldg.)
- Hoagland, John King, B.S., Farmer, Woodside Farm, Mode.
- Hubbard, George Wallace, B.S., Capt., Mechanical Eng'r, 6333 Greenwood Ave., Chicago. (With D. H. Burnham & Co.)
- Hughston, Alice Dellena, B.S., Mrs. C. D. Enochs, 244 W. 15th St., New York, N. Y.
- James, Rev. Frederick Milton, B.S., Methodist Minister, Joppa.
- Jones, Louise, A. B., Mrs. B. W. Adsit, Pontiac.
- Jutton, Emma Reed, B.L.S., in charge of Loan Desk, Library, U. of I., 501 Chalmers St., Champaign.
- Kable, James Franklin, B.S., Instructor in Engineering Drawing, University of Ill., 706 S. 2d St., Champaign.
- Ketchum, Daniel Clement, A.B., Law Student, U. of I., 408 S. 4th St., Champaign.
- Kingsbury, James Thompson, A.B., LL.B., Lawyer, Vincennes. Ind.
- Koch, Fritz Conrad, M.S., Experimental Chemist with Armour & Co., 1519 W. Garfield Bvd., Chicago. (Stock Yards.)
- Landel, Ida Susan, A.B., 25 E. Green St., Champaign.
- Latzer, John Albert, M.S., Sup't Condensing Plant, Delta, O.
- Lawrence, Carroll Gray, B.S., Capt., Architectural Draftsman, 6140 Lexington Ave., Chicago. (Mfrs. Appraisal Co., 303 Dearborn St.)

- Leach, William Blake, A.B., Lawyer, 707 E. Walnut St., Bloomington. (402 Unity Bldg.)
- Leutwiler, Oscar Adolph, M.S., Ass't Professor of Machine Design, U. of I., 1006 W. California Ave., Urbana.
- Loftus, Ella, A.B., Teacher, 405 St. Mary's St., Pekin.
- McCormack, Harry, M.S., Teacher, Springfield, Mo.
- McElfresh, Fred Morgan, B.S., Fruit Grower, The Willows, Salem, Ore.
- McGilvrey, Mrs. Mary, A.B., 167 Whitman St., Cleveland, Ohio.
- Meharry, Jesse Erle, A.B., Farmer, Tolono.
- Mercil, Benoni Edward, B.S., with Eng'g Dep't American Telephone and Telegraph Co., 25 W. 93d St., New York, N. Y. (22 Thames St.)
- Mesiroff, Joseph A., B.S., Engineering Department, T. M. E. R. & L. Co., 597 4th St., Milwaukee, Wis. (451 Broadway.)
- Mills, Ralph Walter, B.S., M.D., Physician, 2926 Eads Ave., St. Louis, Mo. (2253 S. Vandeventer Ave.)
- Newell, Mason Harder, A.M., LL.B., Lawyer, Springfield. (Law Library.)
- Otwell, Allen Meade, B.S., Graduate School, Univ. of Wis., Madison, Wis.
- ✓ Owens, Daisie Margaret, B.S., Teacher, North Yakima, Wash.
- Paine, Arthur Elijah, A.M., A. E. Paine & Co., Publishers & Proprietors, Pana. (144 S. Locust St.)
- Postel, Fred Jacob, B.S., Electrical Engineer, 5227 Calumet Ave., Chicāgo. (1509 Fisher Bldg.)
- ✓ Putnam, Alice, B.Mus., Musician, 55 Madison Park, Chicago.
- Railsback, Roy J, A.B., Grain & Real Estate, Hopedale.
- Rapp, George Leslie, B.S., Architect, 53 E. 53d St., Chicago. (1005, 100 Washington St.)
- Raymond, John Eaton, B.S., Farmer, Rural Route No. 58, Sidney.
- Raymond, Ruth Cleveland, A.B., Mrs. W. E. Haseltine, Box 422, Aurora.
- Rhoads, Emma May, A.B., Mrs. E. F. Nickoley, Teacher in Syrian Protestant Coll., Beirut, Syria.
- Rhoads, Horace Adams, A.B., Newspaper Work in Chicago, 601 E. Clark St., Champaign.
- Ritchey, Felix, A.B., Farmer, Cadwell.
- Rudnick, Paul Frederick Augustus, Ph.G., B.S., Chemist, with Armour & Co., 4956 Vincennes Ave., Chicago. (Stock Yards.)

- Schutt, Walter Robert, A.B., Freight Claim Dep't, C. M. & St. P. R'y, Chicago, 809 S. Jackson St., Belleville. (Franklin Park.)
- Seely, Garrett Teller, B.S., Eng'r of Maintenance, S. Side Elevated R. R., 602 E. 50th St., Chicago. (47 Congress St.)
- Sheean, Frank Thomas, Lawyer, Galena.
- Sheean, Henry David, Lawyer, Galena.
- Sheldon, Carl Edmunds, A.B., LL.B., Lawyer, Sterling.
- Smith, Charles Augustus, B.S., Architect, Iola, Kas.
- Smith, Elmer Church, B.S., Civil Eng'r, Columbus, Neb. (With Jamison Coal & Coke Co., Greensburg, Pa.)
- Smith, Florence Mary, A.B., Teacher in High School, 606 W. Green St., Urbana. (814 N. Main St., Bloomington.)
- Smoot, Elma, A.B., Mrs. F. J. Postel, 5227 Calumet Ave., Chicago.
- Smurr, Tom Woods, A.B., 635 Illinois Ave., Ottawa.
- Staley, Maggie Edith, A.B., Mrs. H. V. Carpenter, Pullman, Wash.
- Streight, Laura Allana, B.L.S., Franklinville, N. Y.
- Swenson, Sidney Orin, B.S., Draftsman, with Chicago Edison Co., 2161 Jackson Bvd., Chicago.
- Tebbetts, George Edward, B.S., Draftsman, 1041 Millard Ave., Chicago. (Link Belt Machinery Co., 39th St. and Stewart Ave.)
- Theiss, Otto John, B.S., Eng'r, with Jacobs & Davies, 131 Prospect Pl., Brooklyn, N. Y. (128 Broadway, New York.)
- Thompson, Ralph, A.B., Farmer, Carbondale.
- Trapp, Harold Frederick, LL.B., Lawyer, Beach, Hodnott & Trapp, 227 Tremont St., Lincoln. (608½ Broadway.)
- Ullensvang, Martin L, B.S., Teaching Science in Luther Academy, Albert Lea, Minn.
- Vance, William Herbert, B.S., Ass't Eng'r, C. C. C. & St. L. R. R., 1314 Linden St., Indianapolis. (Delaware and South Sts.)
- Vial, Alice Mildred, A.B., Teacher, Western Springs.
- Volk, Edmund, B.S., Foreman of Switchboard Work, Sherwood Blk., Spokane, Wash.
- Weaver, Ben: Perley, B.S., M.D., Physician and Surgeon, Ft. Wayne, Ind. (215 W. Wayne St.)
- Webster, William W., B.S., Eng'r of Tests, 796 G St., San Bernardino, Cal. (A. T. & S. F. R. R. Co.)
- Weirick, Ralph Wilson, M.Arch., Draftsman, with Reed & Stern, 156 E. 37th St., New York, N. Y. (5-7 E. 42d St.)
- Wernham, James Ingersoll, B.S., M.D., Physician, Marengo.
- Whitmeyer, Mark Hubert, B.S., Architect, 926 N. Robinson St., Danville. (15 N. Vermilion St., P. O. Box 771.)



- Willcox, Maurice Meacham, B.S., Capt., with I. C. R. R., Construction Dep't, 5809 Rosalie Ct., Chicago. (Room 9 Park Row Sta.)
- Williams, George Bassett, B.S., Sup't of Construction, Wells Bros. Co., 808 Reba Pl., Evanston. (1014 Monadnock Bldg., Chicago.)
- Wilmarth, George Henry, B.S., Sup't Ft. Smith Light & Traction Co., Ft. Smith, Ark.
- Woolsey, Lulu Catharine, A.B., Beloit, Wis.
- Young, Bertram Otho, A.B., Lawyer, Oklahoma City, Okla.
- Young, John Hayes, B.S., Mgr. Modern Electric Co., 127 S. 3d St., Burlington, Ia.

**CLASS OF 1900**

- Abry, Bertrand Buhre, B.S., Electrical Eng'r with Westinghouse Electric and Mfg. Co., 507 Rebecca Ave., Sta. D, Pittsburg, Pa.
- Adams, Otto C., LL.B., Lawyer, 107 N. Water St., Decatur. (409-11 Millikin Bldg.)
- Alarcó, José Maria, B.S., with C. W. Whittemon, Coliseo Nuevo 408, City of Mexico, Mex. (P. O. Box 2015.)
- Ambler, Sarah, M.S., B.L.S., Cataloger, Office Sup't of Documents, 519 6th St., N. W., Washington, D. C.
- Appelquist, Jerome Gustaf, B.S., Capt., Mgr. Moline, E. Moline & Watertown R'y Co., 1620 3d Ave., Rock Island.
- Ashley, Harriet Elizabeth, A.B., Teacher of French, Butte, Mont.
- Baker, Zion Frost, LL.B., Sullivan.
- Barrett, George Francis, LL.B., Lawyer, 847 W. 22nd St., Chicago. (15, 81 S. Clark St.)
- Beck, Florence Maria, B.L.S., Librarian, Eastern Illinois State Normal School, Charleston.
- Bennett, Edith Page, Teacher in High School, Ottawa.
- Boyd, Hobart Shearman, LL.B., Lawyer, Lewistown.
- Branch, Elizabeth, B.L.S., Ass't Librarian, E. Ill. State Normal School, Charleston.
- Brown, William Jay, B.S., Architectural Draftsman, 4249 McPherson Ave., St. Louis, Mo. (Dep't of Works, Universal Exposition.)
- Bullock, Jessie Jane, A.B., Teacher of Mathematics in High School, Champaign.
- Burke, Eugene Irving, B.S., Vice-Pres. Citizens' Bank, 509 W. Church St., Champaign. (34 N. Neil St.)
- Burroughs, Elmer, B.S., with Western Electric Co., 702 Center St., Des Moines, Ia. (3d and Depot Sts.)

- Busey, Robert Oscar, A.B., Teacher of Science in High School, Urbana.
- Bush, John Kenyon, A.B., Teacher of Chem. in High School, 653 S. Chicago St., Joliet.
- Campbell, Bruce Alexander, A.B., Lawyer, Albion.
- Capron, Clyde, A.B., Northwestern Law School, 204 Dearborn Ave., Chicago.
- Church, Walter Samuel, B.S., with Myron H. Church, 2679 Kenmore Ave., Chicago. (1235 Marquette Bldg.)
- Clatworthy, Linda Marie, B.L.S., Head Cataloger, Public Library, 418 Salem Ave., Dayton, O.
- Cooper, Fred Worth, LL.B., Royal Trust Co. Bank, Chicago.
- Corbus, Burton Robison, B.S., M.D., Alma Sanitarium, Alma, Mich.
- Darmer, George Alexander, A.B., M.D., Resident Surgeon, Milwaukee Hospital, Milwaukee, Wis.
- Dolan, William John, LL.B., Lawyer, Granite City.
- Doney, Oliver Kinsey, LL.B., Lawyer, 511 W. Illinois St., Urbana. (103 W. Main St.)
- Dougherty, Horace Raymond, A.B., LL.B., Lawyer, Manager Trust Department Title and Trust Co., 906 Glen Oak Ave., Peoria. (100 Y. M. C. A. Bldg.)
- Dowiatt, Stanislaw, B.S., Pittsburg.
- Eddy, Clarence LeRoy, B.S., Capt., Civil Engineer, with C. & N. W. R'y Co., Weldon, Ia. (3610 Lake Ave., Chicago.)
- Fisher, John William, B.S., Sup't of Schools, Carlyle.
- Foster, William Grant, B.S., Capt., Architectural Draftsman and Sup't, 628 Menominee St., Oak Park. (615, 175 Dearborn St., Chicago.)
- Fox, Harry Bert, B.S., Instructor in Geology, U. of I., 909 W. Illinois St., Urbana.
- Francis, Frank D, A.B., M.D., Interne, Cook Co. Hospital, Chicago.
- Freeman, Harry Eben, B.S., M.D., Physician and Surgeon, Millington.
- Gibbs, George, Jr., Student in Harvard Univ., 15 Shepherd St., Cambridge, Mass.
- Glenn, Leslie Leland, LL.B., with Trevett-Mattis Banking Co., Champaign.
- Glenn, Otis Ferguson, LL.B., Lawyer, Murphysboro.
- Goodenough, George Alfred, M.E., Ass't Professor of Mechanical Engineering, Univ. of Ill., 909 W. Green St., Urbana.
- Graham, Hugh Joseph, A.B., Lawyer, 413 S. 7th St., Springfield.

- Gray, Robert, Farmer, Lily Lake.
- Grossberg, Harry Altman, LL.B., Lawyer, 1617 Central, Kansas City, Mo.
- Gunthorp, Pauline, B.L., B.L.S., Head Cataloger, Library Univ. of Cinn., Cincinnati, O.
- Hall, Elizabeth Twining, A.B., A.M., Head of Dep't of English in High School, Everett, Wash.
- Hall, John Calvin, A.B., Principal of High School, Whiting, Ind.
- Hannan, John Edward, A.B., Solicitor, 2255 S. Park Ave., Chicago. (179 Illinois St.)
- Hanson, Rachelle Margaret, B.S., Mrs. R. B. Gurley, Savannah, N. Y.
- Harker, Oliver Albert, Jr., A.B., Stock Raising and Real Estate, Carbondale.
- Hartrick, Nancy Emma, A.B., Mrs. W. W. Webster, 796 G St., San Bernardino, Cal.
- Harts, David Hassleton, Jr., A.B., Law Student, Harvard Univ., Lincoln. (Harvard Law School, Cambridge, Mass.)
- Hasson, Harry, B.S., Chemist, with Armour Fertilizer Wks., Atlanta, Ga.
- Haven, Georgetta, B.L.S., Cataloger, Public Library, Avondale, Cincinnati, Ohio.
- Hawley, William Albert, B.S., Capt., Civil Engineer, 6527 Stewart Ave., Chicago. (Room 11, Union Station.)
- Hayes, Zella Bernice, A.B., Teacher, Rankin.
- Headen, Thomas Moulton, A.B., LL.B., Lawyer, 5752 Madison Ave., Chicago. (925, 184 La Salle St.)
- Hines, Edward George, B.S., Capt., with Bridge and Building Department I. C. R. R., McKinley and Hill Sts., Champaign. (12th St. Station, Chicago.)
- Holabird, Robert Grant, B.S., 808 Reba Pl., Evanston. (Holabird & Roche, 1618 Monadnock Bldg., Chicago.)
- Hughes, Clarence Wilbert, A.B., Law Student, U. of I., 1013 W. Illinois St., Urbana.
- Jackman, Ida Louise, B.L.S., Mrs. E. G. Dougherty, Genoa.
- Jahr, Torstein Knutson Torstensen, A.B., B.L.S., Ass't Cataloger. Library of Cong., Washington, D. C.
- Johnson, Charles Sunderland, B.S., with Chicago Edison Co., 139 Adams St., Chicago.
- Johnston, Arthur Russell, B. S., Coal and Ice, Joliet.
- Jordan, George Thomas, A.B., Farming, Savoy.

- Keeney, Henry Ezra, B.S., Draftsman, 1310 Center St., Wilkesburg, Pa. (Duquesne Steel Wks., Duquesne, Pa.)
- Kepler, George Frank, B.S., Draftsman, with Frank P. Milburn, 1412 Laurel St., Columbus, S. C. (11 City Hall.)
- Ketchum, Margaret Adele, LL.B., Lawyer, Augusta.
- Kirkpatrick, Asa Baird, B.S., Machinist, 317 E. South St., Kewanee.
- Krahl, Benjamin Franklin, B.S., Civil Eng'r, Aurora. (1124 Union Sta., Pittsburg, Pa.)
- Kratz, James Piatt, A.B., Capt., Farming, Monticello.
- Kuehn, Alfred Leonard, B.S., Eng'r, Maintenance of Way, C. C. & L. R. R., Richmond, Ind.
- Lathrop, Olive Clarice, B.L.S., Cataloger, Library of Cong., Washington, D. C.
- Latzer, Jennie Mary, B.S., Ass't in Bacteriology, U. of I., 405 E. Daniel St., Champaign.
- Laugman, John Oscar, B.S., Principal of High School, 1007 W. Oregon St., Urbana.
- Lee, Julian Lisiecki, B.S., Draftsman, with I. C. R. R., McComb, Miss.
- Logue, Charles Louis, B. S., Capt., Chemist, with Nat'l Starch Co., Indianapolis, Ind.
- McWilliams, Helen Louise, A.M., Teacher, Champaign.
- Mather, Lydia Maria, A.B., Mrs. E. B. Forbes, Columbia, Mo.
- Maury, Howard VanReed, B.S., Chief Eng'r, Pan-American Bridge Co., New Castle, Ind.
- May, Fred Hutchinson, LL.B., Clerk, U. S. Customs Service, 276 Indiana St., Chicago. (315 Dearborn St.)
- Mayall, Edwin Lyman, B.S., in Charge of Piece Work System, Deere & Co., 2911 7th Ave., Rock Island.
- Merrill, Stillwell Frederick, B.S., Chemical Sup't, Maple City Soap Co., 302 S. 1st St., Monmouth.
- Mulliken, Albert Danforth, LL.B., Lawyer, 404 W. Church St., Champaign. (Wolfe & Mulliken, 8 Main St.)
- Newton, Fred Earle, A.M., Sup't of Schools, Palatine.
- Null, Marion Michael, B.S., Medical Missionary, Seoul, Korea. (Care of Dr. Avison.)
- Ostrowski, Samuel, LL.B., Lawyer, 512-514, 85 Dearborn St., Chicago.
- Owens, Wilkens Hoover, B.S., Central Ill. Constr. Co., 407 Myers Bldg., Springfield.

- Palmer, William Gay, A.M., Teacher of Latin in High School, Champaign.
- Peeples, Cornelius James, A.B., Bank Clerk, Shawneetown.
- \*Pettinger, Robert Gerald, B.S., died at Cumberland, Ia., Jan. 13, 1903.
- Phillips, Theodore Clifford, B.S., Municipal and Sanitary Engineer, 635 Park Row Bldg., New York, N. Y.
- Pickett, Charles Churchill, A.B., LL.B., Professor of Law, Univ. of Ill., 606 S. Mathews Ave., Urbana.
- Pollard, Earle Royal, B. S., Draftsman, 1724 S. Hope St., Los Angeles, Cal. (Title, Insurance & Trust Co.)
- Ponzer, Ernest William, B.S., Instructor in Mathematics, Univ. of Ill., 310 E. Green St., Champaign.
- Posey, Chessley Justin, B.S., Graduate Student, Univ. of Chicago, Chicago.
- Praeger, William Emilius, M.S., Lecturer, Univ. of Chicago, 5535 Monroe Ave., Chicago.
- Price, Anna May, B.L.S., Ass't Librarian, Univ. of S. Dak., Vermilion, S. D.
- Price, Helen Louis, B.L.S., Librarian, Public Library, Blue Island.
- Quaintance, Hadly Winfield, A.M., D.C.L., Teacher in High School, 1229 S St., Lincoln, Neb.
- Quisenberry, Arthur Clifford, A.B., Clerk in Lincoln National Bank, 528 Lincoln Ave., Lincoln.
- Radley, Guy Richardson, B.S., Electrician, with Milwaukee Electric R'y and Light Co., 3226 Chestnut St., Milwaukee, Wis. (451 Broadway.)
- Reardon, Neal Daniel, A.B., U. S. Int. Rev. Dep't, Delavan. (Pekin.)
- Reed, Mrs. Adele Cooper, B.L.S., Mrs. J. B. Scott, 606 W. 113th St., New York, N. Y.
- Reimers, Frederick William, B.S., with People's Power Co., Rock Island. (Moline.)
- Rhodes, Edward Melvin, LL.B., Lawyer, 308 E. Healy St., Champaign. (Schaefer & Rhodes, 13 Main St.)
- Ricker, Raymond Craver, B.S., Architectural Draftsman, 15530 Lexington Ave., Harvey. (1201 Woman's Temple, Chicago.)
- Robbins, Ernest Thompson, B.S., Farmer and Stock Raiser, Payson.
- Robertson, Lloyd Silas, B.S., Farmer, Carlisle, Ark.
- Rochow, Carl John Frederick, B.S., M.D., Rock Island. (Tabitha Hospital, Chicago.)

- Roe, Arthur, LL.B., Lawyer, Vandalia.
- Rolfe, Martha Deette, B.S., Student in Graduate School, Univ. of Ill., 601 E. John St., Champaign.
- Rowland, Elbert Mallary, LL.B., Lawyer, Olney.
- Rugg, Edna Almira, A.B., Mrs. G. D. Hubbard, 401 S. Aurora St., Ithaca, N. Y.
- Ryburn, Charles A., A.B., Heyworth.
- Saffer, Louis Byron, LL.B., Lawyer, 1001 W. Illinois St., Urbana. (103 W. Main St.)
- Safford, Edward Brigham, B.S., Chemist, with Nelson Morris & Co., Chicago.
- Sanford, Delia Cleora, B.L.S., Cataloger, Public Library, Davenport, Ia.
- Sawyer, Ida Estelle, Ph.B., B.L.S., Reference Librarian, Ia. State Univ., Iowa City, Ia.
- Schaefer, Peter Philip, LL.B., Lawyer, Champaign Nat'l Bank Bldg., Champaign. (Schaefer & Rhodes.)
- Schneider, Edward John, B.S., Contracting Agt. Am. Bridge Co., 1817 Wrightwood Ave., Chicago. (1315 Monadnock Blk.)
- Schulz, William Frederick, E.E., Instructor in Physics, U. of I., 1301 W. Springfield Ave., Urbana.
- Scudder, Benjamin Harrison, A.B., Ph.M., Professor of Hist., Tempe Normal School of Arizona, Tempe, Ariz.
- Sears, Minnie Earl, M.S., B.L.S., Head Cataloger, Bryn Mawr College Library, Bryn Mawr, Pa.
- Seely, Blanche, B.L., B.L.S., Junior Ass't, John Crerar Library, 5734 Washington Ave., Chicago.
- Shrum, Mabel Claire, B.L.S., Librarian, Colo. School of Mines, Golden, Colo.
- Slocum, Roy Harley, B.S., Instructor in Mechanics, Univ. of Ill., 926 W. Illinois St., Urbana.
- Smith, George Russell, B.S., Capt., Draftsman, with Am. Brake Shoe & Foundry Co., 1641 Oak St., Chicago Heights.
- Smith, William Walter, A.B., Teacher, Sumner High School, 14 S. Channing Ave., St. Louis, Mo.
- Soverhill, Harvey Allen, B.S., Sup't for Root & Van Dervoort Engine Co., East Moline.
- Stakemiller, Benjamin Benton, B.S., Resident Eng'r on Construction, C. C. C. & St. L. R'y, Edwardsville.
- Strohm, Adam, Julius, B.L.S., Librarian, Free Public Library, Trenton, N. J.

- Strout, Frank Asbury, B.S., Engine Erector, with Fairbanks, Morse & Co., 225 W. 18th St., Kansas City, Mo.
- Temple, Harry Roberts, B.S., Architect, 508 W. Healy St., Champaign. (Spencer & Temple, 1st Nat'l Bank Bldg.)
- Thompson, George Henry, A. B., LL.B., Office Clerk, 180 Cass St., Chicago. (G. H. Hammond Co., U. S. Yards.)
- Thorpe, John Charles, B.S., M.E., Ass't Professor Mech. Eng'r, Univ. of Washington, Univ. Sta., Seattle, Wash.
- Tooke, Charles Wesley, A.M., LL.B., Lawyer, Syracuse, N. Y. (12 Syracuse Bank Bldg.)
- Trevett, John Howard, LL.B., Cashier, Trevett, Mattis & Baker, Beatrice, Neb.
- Tyler, Walter Simeon, B.S., Sup't, The Lambert Co., Mfrs. Electrical Supplies, 5229 Jefferson Ave., Chicago.
- Van Brundt, Chester S, LL.B., Mining, Box 6, Lewiston, Idaho.
- Van Patten, Seth Fields, Teacher of English, High School, Escondido, Cal.
- Waits, Charles Jefferson, A.M., Teacher of Mathematics in High School, 1940 N. 10th St., Terre Haute, Ind.
- Waldo, Marie L, B.S., Ass't Reference Library School, U. of I., 603 Daniel St., Champaign.
- Wandell, Caroline, B.L.S., Librarian, Carnegie Library, Houston, Tex.
- Waters, Willard Otis, A.B., B.L.S., Catalog Div., Library of Cong., 1225 Clifton St., N. W., Washington, D. C.
- Wehrstedt, Otto Charles, B.S., with C. H. Wehrstedt, Mfg. Jeweler, 2603 Sheridan Rd., Evanston.
- Wesemann, Adolph Henry, LL.B., Lawyer, La Grange. (83 Metropolitan Blk.)
- West, Maybelle Gay, B.L., B.L.S., 794 N. Academy St., Galesburg.
- Wiley, Raymond Sly, B.S., Capt., with R. H. Hunt, 518 Cherry St., Chattanooga, Tenn. (8th and Broad Sts.)
- Willcox, Lucy Bertha Ely, B.L.S., Mrs. J. D. Wallace, Champaign.
- Willis, Clifford, B.S., Ass't in Soil Physics, U. of I., 503 W. High St., Urbana.
- Wood, Harvey Edgerton, A.B., Lawyer, 634 Van Buren St., Joliet. (320 Barber Bldg.)
- Woods, William Francis, A.B., Lawyer, 712 W. Illinois St., Urbana. (Gill Block.)
- Wray, George Thomas Henry, B.S., with Western Electric Co., 5510 Indiana Ave., Chicago.

## CLASS OF 1901

- Adsit, Bertram Wilson, LL.B., Lawyer, Pontiac.
- Allen, Albert Miller, B.S., Architect, with Holabird & Roche, 4600 Lake Ave., Chicago.
- Allen, Albert Miller, B.S., Architect, with Holabird & Roche, 4600
- Armitage, James Howard, A.B., with Practical Gas Construction Co., Buckingham. (N. Chicago.)
- Arnold, William Wright, LL.B., Lawyer, Robinson.
- Bailey, Donald Herbert, A.B., Cashier, Ayer & Lord Tie Co., Carbondale.
- Baker, Horatio Weber, B.S., Capt., 702 W. University Ave., Champaign.
- Baldwin, Aneta, A.B., Teacher in High School, Paris. (Murphysboro.)
- Bardwell, Faith Leland, A.B., Champaign.
- Barnett, Arthur Franklin, B. S., Student, Rush Medical College, Hallsville.
- Bell, Arthur Timothy, A.M., Principal Schools, Reynolds.
- Bell, Edgar Deforest, B.S., Supt., Urbana Light, Heat & Power Co., Urbana.
- Bird, Frederick Joel, B.S., Consulting Eng'r, Illinois Engineering Co., Carterville.
- Black, Alice Mary, A.B., Student, Graduate School University of Illinois, 404 W. Hill St., Champaign.
- Black, Laura Louise, A.B., 404 W. Hill St., Champaign.
- Bonser, Frederick Gordon, M.S., Professor of Education, State Normal School, Cheney, Wash.
- Boyd, Edward Parkman, B.S., Department of Architecture, State Agricultural College, Ft. Collins, Colo.
- Boyd, John William, LL.B., Lawyer, Rantoul.
- Bracken, Ellis Freeman, Supt. Power Sub-station, 1162 E. 56th St., Chicago. (139 Adams St.)
- Brayton, Louis Frederick, B. S., Office Manager, Reed & Stem, 129 Western Ave., St. Paul, Minn. (601 Endicott Bldg.)
- Bridgman, Minnie Clark, B.L.S., Ass't Librarian, Univ. of Cincinnati, 3410 Clifton Ave., Cincinnati, O.
- Briggs, Claude Porter, Principal High School, Aurora.
- Buchanan, James W, B.S., Teacher in High School, Spokane, Wash.
- Burdick, Jay Horace, B.S., with Radcliffe Regalia Co., 25 S. Channing St., Elgin. (216 Chicago St.)



- Calhoun, Henrietta Ann, B.S., A.M., Student, Graduate School, Univ. of Illinois, 504 Daniel St., Champaign.
- Campbell, Ashton Ellsworth, A.B., Student in College of Law, Univ. of Illinois, 604 E. Green St., Champaign.
- Carr, George Russell, B.S., Manager Sales Dep't, 416 Home Ave., Oak Park. (27, 34 Rialto Bldg., Chicago.)
- Carroll, Jessie Anna, A.B., B.L.S., Librarian, University of California, 2675 Parker St., Berkeley, Cal.
- Carter, Florence Emeline, B.L.S., Mrs. E. G. Sherman, 4754 Vincennes Ave., Chicago.
- Chamberlain, Charles Cory, A.B., Grain Broker, Hoopeston.
- Chapin, Edward Pierce, A.B., Associate Editor, *The News*, 304 W. Columbia Ave., Champaign.
- Chapman, Charles Hiram, A.B., Capt., National Bank Examiner, 497 12th St., Brooklyn, N. Y. (35 Nassau St., New York, N. Y.)
- Chase, Adelaide Maria, B.L.S., Librarian, Stone & Webster, 109 Brooks St., West Medford, Mass. (84 State St., Boston, Mass.)
- Chester, Margaret Belle, A.B., 717 W. University Ave., Champaign.
- Chipp, Willis Cullen, B.S., with Am. Brake, Shoe & Foundry Co., Suffern, N. Y. (Mahwah, N. J.)
- Coffman, Henry Augustus, LL.B., Lawyer, 207 S. Elm St., Champaign.
- Cole, Agnes Mary, B.S., B.L.S., Ass't Cataloger, Univ. of Ill., 1002½ W. California Ave., Urbana.
- Collins, Guy Richard, B.S., Farmer City.
- Conard, Philip Arthur, A.B., Sec'y Y. M. C. A., Univ. of Illinois, Monticello. (Y. M. C. A. House, Champaign.)
- Crossland, George Marshall, A.B., Teacher, Watseka. (622 Huron St., Indianapolis, Ind.)
- Crouch, William Liebrick, LL.B., Mining Supt., Guanajato, Mex. (c/o Dwight Furness.)
- Curfman, Lawrence Everett, B.C., Capt., Student in Civil Eng'r, Univ. of Illinois, 412 W. Illinois St., Urbana.
- Davis, Mary Belle, A.B., Teacher, 611 W. Green St., Urbana. (Rantoul.)
- Detrick, Nellie Elizabeth, A.B., 602 Stoughton St., Champaign.
- Dillon, Gertrude Semphill, A.B., Graduate Student, U. of I., Sheldon.
- Dillon, Roy Hodgson, B.S., Electrical Eng'r, Schnectady, N. Y. (With General Electric Co.)

- East, Edward Murray, B.S., Ass't in Chemistry, A.E.S., University of Illinois, 806 S. Goodwin Ave., Urbana.
- Elder, Roy Samuel, LL.B., Lawyer, 502 S. Topeka Ave., Wichita, Kas. (102 N. Main St.)
- Emmett, Arthur Donaldson, B.S., Ass't in Food Investigation, Univ. of Illinois, 1011 Oregon St., Urbana.
- Fellingham, Clark Hughes, B.S., Farmer, Verona.
- Fishback, Mason McCloud, A.B., Teacher in High School, Urbana.
- Frahm, Hattie Belle, LL.B., Mrs. George N. Fornof, Streator.
- Franks, Charles Wilber, A.B., Teacher, Badajos Tablas, Ph. I.
- Frazey, Nellie May, A.B., Teacher in High School, Sheboygan, Wis.
- Frost, Frank G, B.S., Draftsman, 152 Lexington Ave., Columbus, O. (Rarig Engineering Co.)
- Fucik, Edward James, B.S., with G. W. Jackson, 813 Sawyer Ave., Chicago. (70 LaSalle St., or Ashland Blk.)
- Garnett, Grace Ann., A.B., Principal High School, St. Mary's. (Plano.)
- Gleason, Henry Allan, B.S., Instructor in Botany, Univ. of Illinois, 511 E. John St., Champaign.
- Gordon, Joseph Hinckley, A.M., Instructor in Academy, Univ. of Illinois, 708 S. 4th St., Champaign.
- Graber, Howard Tyler, B.S., Chemist, with Parke, Davis & Co., 1101 Perry Ave., Peoria. (984 Jefferson Ave., Detroit, Mich.)
- Green, Frances Myrtle, A.B., Mrs. J. G. Hoagland, Mode.
- Greene, Charles Thomas, A.B., Salesman, 611 W. 61st Pl., Chicago. (Nelson Morris & Co.)
- Gridley, Harry Norman, A.M., Student at Law School, Columbia Univ., 316 W. 115th St., New York, N. Y.
- Griswold, Augustus Harold, B.S., with Western Electric Co., 5212 Jefferson Ave., Chicago.
- Griswold, Lewis Edwin, B.S., U. S. Dep't of Agriculture, Bureau of Soils, Blue Mound. (Washington, D. C.)
- Hall, Arthur Raymond, A.M., LL.B., Lawyer, Daniel Bldg., Danville.
- Hammers, Edna Rose, A. B., Mrs. G. J. Ray., 319 Madison Ave., Scranton, Pa.
- Hammers, Jesse, A.B., Farmer, Independence, Ia.
- Harker, George Mifflin, LL.B., Lawyer, Carbondale.
- Harrison, Dale Stuart, B.S., Civil Eng'r, Sterling.
- Hartrick, Guy Russell, B.S., Ph.C., Pharmacist, Wellston, Okla.

- Hartrick, Louis Eugene, B.S., Ph.C., Pharmaceutical Chemist, Lexington, Okla.
- Hays, Carl, B.S., Civil Eng'r, Urbana. (Kansas City, Mo.)
- Heath, Lawrence Seymour, A.B., Teacher, Edinburg.
- Hicks, Byron Wallace, B.S., Capt., Ass't Eng'r to W. & M. Ry., Warren. (Norway, Mich.)
- Hinkle, Ida May, A.B., 1007 S. Wright St., Champaign.
- Hobble, Arthur Hasson, B.S., Electrical Eng'r to Mysore Gov't, Rushville. (Sivasamudram, Mysore, South India.)
- Holmes, Frank Hamilton, B.S., LL.B., Lawyer, North Henderson.
- Hopkins, Mabel, A.B., Mrs. G. W. Hubbard, 6333 Greenwood Ave., Chicago.
- Hoppin, Charles Albert, B.S., Electrical Eng'r, with Allis-Chalmers Co., 66 W. 107th St., New York, N. Y. (403 W. 59th St.)
- Horner, Harlan Hoyt, A.B., Sec'y to the President, University of Illinois, 928 W. Illinois St., Urbana. (President's Office.)
- Housel, Oscar Lloyd, B.S., Capt., Electrical Eng'r, 101 11th St., N. E., Washington, D. C. (Supervising Architect's Office, Treasury Dep't.)
- Howard, Clara Eliza, B.L.S., Librarian, 328 N. Craig St., Pittsburgh, Pa. (Carnegie Library.)
- Howard, Joseph, LL.B., Lawyer, Ft. Collins, Colo.
- Humphry, Wallace George, LL.B., Lawyer, Hamilton.
- Hunter, Harry Edgar, B.S., Architectural Draftsman, 621 2nd Ave., Cedar Rapids, Ia. (Dieman & Fiske.)
- Hurlbert, Flora Dorothy, B.L.S., Librarian, Morrison.
- Iddings, Daisy Deane, A.B., Principal High School, Atlanta. (Monticello.)
- Johnson, James Edward, A.B., with the D. U. & C. Electric R'y Co., Danville.
- Jones, Albert Edward, A.B., Lena.
- Jones, Fanny Ella, B.L.S., Morris.
- Kelly, Frances Emily, A.B., Teacher in High School, **St. David.** (Lincoln.)
- Kemp, John Edward, A.B., B.S., Capt., City Eng'r and Supt. Water Dep't, Lake Forest. (Kewanee.)
- Kirkpatrick, Harlow Barton, B.S., Eng'r, with C. & N. W. Ry., Anna. (1 W. Kinzie St., Chicago.)
- Kittredge, Mary Harriett, B.L.S., Mrs. James A. Brown, 609 W. University Ave., Champaign.

- Kreikenbaum, Adolph, B. S., Chemist, 1072 Milwaukee Ave., Chicago.
- Lamet, Louis Armand, LL.B., Lawyer, Warsaw. (Carthage.)
- Layton, Katherine Alberta, A.B., Teacher in East Side High School, 356 E. Chestnut St., Canton. (281 S. 4th St., Aurora.)
- Lindley, Walter Charles, A.B., Instructor in Rhetoric, Academy, Univ. of Illinois, 509 E. John St., Champaign.
- Livingston, Stacia, B.L.S., Mrs. H. R. Temple, 508 W. Healy St., Champaign.
- Lodge, Paul Edmund, A.B., Managing Editor of *The Editor & Publisher*, 69 W. 93rd St., New York, N. Y. (Room 308 Park Row Bldg.)
- Lotz, John Rudolph, B.S., Ass't Eng'r, D., L. & W. R. R., 202 Prospect Ave., Buffalo, N. Y. (44 Main St.)
- Lowenthal, Fred, A.B., 1405 W. 103rd St., Chicago. (607 Chicago Opera House Bldg.)
- Lyman, Frank Lewis, B.S., Cashier, Lyman Real Estate Co., 316 N. 6th St., Ft. Smith, Ark. (9 N. 6th St.)
- Lytle, Earnest Barnes, B.S., Instructor in Mathematics, Academy, Univ. of Illinois, 913 W. California Ave., Urbana.
- McCall, Eugene Adolphus, A.B., Vienna.
- McCullum, Harvey Darling, LL.B., Lawyer, Louisville.
- McCormick, Roscoe, B.S., Principal City Schools, Idaho City, Idaho.
- McCune, Fred Leavitt, B.S., Retail Grocer, 6422 St. Louis Ave., Chicago. (3559 W. 63rd St.)
- McLane, John Wallace, B.S., Laboratory Ass't, Bureau of Soils, U. S. Dep't of Agriculture, Washington, D. C.
- Martin, May Louise, B.L.S., Librarian, Geneva, O. (John Crerar Library, Chicago.)
- Martin, Robert William, A.B., LL.B., Lawyer, Joliet. (6062 Young Bldg.)
- Meier, William, B.S., Bridge Draftsman, 302 N. Paulina St., Chicago. (401 LaSalle St. Station.)
- Miles, Rutherford Thomas, B.S., Grain Dealer, Fisher.
- Miller, William Pitt, Principal High School, Anna.
- Mitchell, Annie, A. B., Teacher, Bement. (Cerro Gordo.)
- Mojonnier, Timothy, M.S., Chemist, with Helvetia Milk Condensing Co., Greenville.
- Moon, Amy Constance, B.L.S., Ass't Cataloger, Carnegie Library, 318 Collins Ave., Pittsburg, Pa.

- Myers, Jesse J, B.S., Instructor in Zoology, Agricultural College,  
Mich.
- Nichols, Gunther, A.B., Cashier, LaGrange State Bank, LaGrange,  
Ind.
- Nilsson, Olof Anton, B.S., Structural Engineer, 3 University Place.  
New York, N. Y.
- Norton, Charles Waterman, A.B., Salesman Shaw-Walker Co., 4163  
Lake Ave., Chicago. (343 Marquette Bldg.)
- \*Norton, Wilbur Perry, B.S., died at Schnectady, N. Y., Dec. 11,  
1901.
- O'Hair, Edna Elizabeth, A. B., Teacher of Latin and German in  
High School, Laurel, Ind. (Macomb, Ill.)
- Oliver, Fdd Charles, B.S., M.E., Instructor in Mech. Eng'r, Univ.  
of Minn., Minneapolis, Minn.
- Patrick, Frederick Phillips, B.S., Architectural Draftsman, 447  
Maple Ave., Blue Island.
- Perkins, Frederick Allen, LL.B., Lawyer, 341 Main St., Canton.
- Pletcher, Nuba Mitchell, A.M., Teacher, Rochester, Ind.
- Radcliffe, William Hickman, B.S., Ass't Eng'r, Erecting Dep't Am.  
Bridge Co., 5218 Jefferson Ave., Chicago.
- Ray, Walter Thornton, B.S., Eng'r, with Chicago Edison Co., 139  
Adams St., Chicago.
- Read, Nellie Lewis, A.B., Teacher, care of A. P. M., Canton, China.
- Redfield, George William, B.S., Electrical Eng'r, 1310 Ashland  
Ave., Chicago. (1047 Monadnock Bldg.)
- Remann, Frederick Gordon, LL.B., Lawyer, Vandalia.
- Reynolds, Mabel, B.L.S., Librarian State Normal School, Cheney,  
Wash.
- Richardson, Robert Earl, A.M., Ichthyological Ass't, State Labora-  
tory Nat. Hist., Univ. of Illinois, Urbana.
- Schillinger, Josephine, A.B., Teacher in High School, 432 8th St.,  
Moline.
- Schroeder, Curt August, M.S., Ass't in Chem., A. E. S., Univ. of  
Illinois, 407 E. Green St., Champaign.
- Schulte, Mabel, A. B., Hopedale.
- Scott, Frank William, A.M., Student, Graduate School Harvard  
Univ., 58 Kirkland St., Cambridge, Mass.
- Sherman, William Horace, LL.B., Lawyer, 601 E. Missouri Ave.,  
St. Joseph, Mich. (Bank of Commerce Bldg.)
- Short, Walter Campbell, A.B., Capt., 2nd Lt., 25th U. S. Infantry,  
Ft. Reno, Okla.

- Simmons, Aaron Trabue, B.S., Architect, 402 First Nat'l Bank Bldg., Bloomington.
- Slocumb, Edward Clyde, B.S., Eng'r on Track Elevation, C., B. & Q. Ry., 671 Jackson Blvd., Chicago.
- Sluss, Alfred Higgins, B.S., Instructor in Physics, Univ. of Illinois, Urbana.
- Smith, Bruce, A.B., Teacher in High School, Newman. (Decatur.)
- Smith, George Carroll, A.B., Student, Rush Medical Coll., Flora.
- Smith, Percy Almerin, B.S., Prof. of English, Higher Normal Coll., Hiroshima, Japan.
- Spellman, Lorinda Ballou, B.L.S., Ass't in Public Library, 173 Beech St., Cleveland, O.
- Stanley, Otis Orion, M.S., Student in Northwestern Med. Coll., 2945 Wabash Ave., Chicago.
- Stevenson, Amos Milton, LL.B., Lawyer, 425 Catherine St., Ottawa. (Room 23 Court House.)
- Stevenson, Ralph Ewing, B.S., 507 E. Front St., Bloomington.
- Stewart, Miles Vincent, B.S., Electrical Eng'r, with General Electric Co., Schnectady, N. Y.
- Strawn, John Harris, A.B., LL.B., Lawyer, Albion.
- Talbot, Carrie E, A.B., Mrs. Carrie T. Miner, Plymouth.
- Tallyn, Louis Liston, B.S., Div. Eng'r, C. C. & L. Ry., Benson. (Peru, Ind.)
- Theodorson, William Auton, B.S., 19 Milton Ave., Chicago.
- Thompson, George Mershon, LL.B., Lawyer, Bement.
- Todd, Mary Estelle, B.L.S.; Accession Clerk, Public Library, 742 S. Beech St., Syracuse, N. Y.
- Tull, Effie May, A.B., Teacher, Farmer City.
- Tunncliff, John James, Jr., LL.B., Lawyer, 77 E. North St., Galesburg. (86 S. Cherry St.)
- Veirs, David Carroll, B.S., with J. George Leyner, Engineering Works Co., 3231 Champa St., Denver, Colo. (501 McPhee Bldg.)
- Wahl, Henry, B.S., Ass't Mech. Eng'r, Illinois Steel Co., 6238 Madison Ave., Chicago.
- Wait, Ernest Ludden, B.S., Real Estate Agent, 403 W. High St., Urbana. (204 W. Main St.)
- Warner, Harry Jackson, B.S., Chemist, Bureau of Chem., U. S. Dep't of Agriculture, 1304 W St., N. W., Washington, D. C.
- Welles, Winthrop Selden, B.S., Supt. Schools, Park Ridge.

- Wells, Elias Herbert, Ph.B., A.M., Prof. Hist. and Political Science, Neb. Wesleyan Univ., Box 619, Univ. Pl., Neb.
- Wetherbee, Charles Earl, B.S., Capt., Architect, Sterling.
- Williams, Ralph Joseph, A.B., B.S., Draftsman, with T. J. Holyoke, 553 Ashland Ave., St. Paul, Minn. (524 Endicott Bldg.)
- Williams, Seymour, A.B., Student at Garrett Biblical Inst., 731 Foster St., Evanston.
- Williams, Winifred Sue, A.B., Student in Graduate School, Univ. of Illinois, Newman.
- Wing, Florence Sherwood, B.L.S., 1000 Main St., La Crosse, Wis.
- Wright, Sidney Walter, A.B., Teacher, Mechanicsburg.

#### CLASS OF 1902

- Ahrens, Anna Wilhelmina, A.B., 211 E. University Ave., Champaign.
- Alspach, Fred Albert, B.S., Civil Engineer, Mt. Pulaski.
- Arnold, Lillian Belle, B.L.S., Librarian, Public Library, 824 Pine St., Michigan City, Ind.
- Bader, Will John, A.B., Quincy.
- Baker, Adaline Maitland, B.L.S., Cataloger, Northwestern Univ. Library, 1325 Judson Ave., Evanston.
- Barackman, Guy Bernard, B.S., Ass't Eng'r, D., L. & W. R. R., 206 High St., Streator. (Chief Engineer's Office, Hoboken, N. J.)
- Barr, John, B.S., Draftsman, 15337 Turlington Ave., Harvey. (Paige Iron Works.)
- Bassett, Herbert, B.S., Sup't Public Schools, Wilmette.
- Bates, John Schuyler, B.S., Draftsman, 236 Oakley Blvd., Chicago. (209 Adams St.)
- Beebe, Florence Jennie, A.B., Blunt, S. Dak.
- Bennett, William Lee, A.B., Farmer, Bentonsport, R. R. 2., Iowa.
- Bogges, Arthur Clinton, A.B., Fellow, University of Wisconsin, Catlin.
- Boggs, Oliver Carter, A.B., LL.B., Lawyer, Urbana.
- Bopp, William George, A.B., Ph.B., Law Student, Univ. of Chicago, 924 Addison Ave.
- Borton, William Franklin, B.S., with Ft. Wayne Electric Co., 416 W. Jefferson St., Ft. Wayne, Ind.
- Boyer, Harry Bernard, LL.B., Lawyer, 311 E. Healy St., Champaign. (13 Main St.)
- Braden, John Henry, LL.B., Lawyer, Albia, Ia.
- Breitstadt, John Henry, A.B., Capt., 325 S. 9th St., Quincy.

- Broadhead, Annie Maple, A.B., Teacher, Normal.
- Brundage, Martin Denman, A.B., Farmer, Malta.
- Buerkin, Emma, A.B., Teacher, 1234 Broadway, Quincy. (Rochelle.)
- Bundy, Raphael Parmer, A.B., Student, College of Law, University of Illinois, Zionsville, Ind.
- Burrill, Lettie Evelyn, A.B., Teacher, Central High School, 3124 E. 9th St., Kansas City, Mo.
- Cadwell, Charles Nickerson, A.B., Student in Law School, Univ. of Chicago, Cadwell.
- Cairns, David Gemmell, LL.B., Lawyer, 514 Illinois Ave., Ottawa. (203 Moloney Bldg.)
- Carter, William Curtis, B.S., Draftsman, with Link Belt Machinery Co., The Hampden, 39th St. and Langley Ave., Chicago.
- Chapin, Arlo, A.B., Newspaper Work, Champaign.
- Clark, Emma Alberta, A.B., Principal High School, 808 W. Illinois St., Urbana. (Lexington.)
- Clarke, Elwyn Lorenzo, B.S., Capt., Ass't Eng'r, D., L. & W. R. R., Momence. (Chief Eng'r's Office, Hoboken, N. J.)
- Coar, Elsa Jeanette, A.B., Teacher, Waverley, Mass.
- \*Collis, Frank Bernard, B.S., Died at Norwich, Conn., Nov. 5, 1903.
- Condit, Jay Sidney, A.B., Student in Law School, Harvard Univ., Beardstown.
- Cook, William Adelbert, A.B., Principal, High School, Marion.
- Cowley, Thomas Philip, B.S., 432 W. Adams St., Chicago. (1100 Old Colony Bldg.)
- Crocker, William, A.M., Teacher, Kewanee. (DeKalb.)
- Cunningham, Ralph Edwin, B.S., with the Edison Electric Co., 1449½ S. Flower St., Los Angeles, Cal.
- Dadant, Louis Charles, B.S., Mfr. Bee Keeper's Supplies, Hamilton.
- Dalbey, Dwight Stout, B.S., Cotton Planter and Real Estate Broker, Jerseyville. (Marianna, Ark.)
- Danely, Mary Golden, A.B., Teacher in High School, Urbana. (Paris.)
- DeMotte, Ruby Thorne, A.B., Teacher, DeKalb.
- DeVelde, Harry Samuel, Teacher, 2545 W. Lake St., Chicago. (Austin Grammar School.)
- Dobbins, Ethel Irene, A.B., General Sec'y, Univ. of Illinois Y. W. C. A., 402 E. Green St., Champaign. (Association House.)
- Dole, Sarah Pauline, A.B., Mattoon.



- Donoghue, William Joseph, B.S., Chemist, Wenona Zinc Works, LaSalle. (Wenona.)
- Draper, Charlotte Enid, A.B., Mrs. P. A. Smith, Hiroshima, Japan.
- Draper, Edwin Lyon, A.B., Capt., Student, Medical School, Harvard Univ., Albany, N. Y.
- Drury, Clair Fred, B.S., Architect, 1610 Oak Ave., Evanston. (806, 184 LaSalle St., Chicago.)
- Dunbar, Margaret, B.L.S., Librarian, W. Illinois State Normal School, 304 W. Adams St., Macomb.
- Dunning, William Neil, B.S., Ass't Eng'r Dep't, Maintenance of Way, I. C. R. R., 6623 Woodlawn Ave., Chicago. (900 Park Row Station.)
- Ebersol, Elmer Tryon, A.B., Teacher in High School, Paxton.
- English, Edward Cary, Jr., B.S., Architect, 510 Union St., Champaign. (Aherns Bldg.)
- Fairclo, George Cassius, B.S., 411 E. Green St., Champaign. (Vinita, I. T.)
- Falkenburg, Fred Peter, A.B., Student in Graduate School, Univ. of Illinois, 790 Maplewood Ave., Chicago.
- Farrin, James Moore, B.S., Capt., Civil Eng'r, 6328 Greenwood Ave., Chicago. (1000 Park Row Station.)
- Farrin, William Otis, B.S., Farmer, Pulaski.
- Francis, Oscar Jefferson, B.S., Draftsman, with M. J. Morehouse, 3610 Lake Ave. (702 Fisher Bldg.)
- Frazier, James William, Jr., B.S., Cattle Feeder, Bushton.
- Freese, John Andrew, A.B., Student, Johns Hopkins Medical School, 424 N. Broadway, Baltimore, Md.
- Fullenwider, Thomas Irwin, B.S., Capt., with Springfield Bridge & Iron Co., Springfield.
- Fuller, Irwin Lee, LL.B., Lawyer, 418-419 Woolner Bldg., Peoria.
- Fullerton, Hugh Regnier, A.B., Havana.
- Fulton, Robert Bruce, B.S., Civil Eng'r, R. F. D. 1., New Douglas.
- Gallaher, Thomas Theron, A.B., Teacher, Ypsilanti, Mich.
- Garrett, Richard Pratt, LL.B., Claim Adjuster, with Chicago City Railway, 4741 Calumet Ave., Chicago. (2020 State St.)
- Gayman, Myrtle, A.B., Teacher, Champaign.
- Geiger, Mabel Louise, B.L.S., Teacher, Greeley School, 1120 Perry Ave., Peoria.
- Gibbs, Laura Russell, B.L.S., Ass't Librarian, Radcliffe Coll., 15 Shepard St., Cambridge, Mass.
- Gilkerson, Aletha, A.B., 1105 California St., Urbana.

- Gillespie, Belle Irene, A.M., Teacher in High School, Champaign. (Charleston.)
- Goff, Mary Emma, A.B., Principal, High School, Rantoul. (Barry.)
- Goss, Edna Lucy, B.L.S., Cataloger, Library, University of California, 2430 Bancroft Way, Berkeley, Cal.
- Graves, Margery, B.L.S., Ass't in Public Library, 25 Fenelon Place, Dubuque, Ia.
- Graham, Archie James, B.S., M.D., Physician and Surgeon, 6857 S. Halsted St., Chicago.
- Greenman, Edwin Gardner, B.S., Instructor in Mechanical Eng'g, Univ. of Cincinnati, 3003 Scioto St., Cincinnati, O.
- Hagedorn, Carl Frederick, A.B., Chemist, 717 St. Clair Ave., East St. Louis. (Armour & Co., National Stock Yards P. O.)
- Hanna, Max Ross, B.S., Electrical Eng'r, General Electric Co., Schnectady, N. Y.
- Harman, John James, B.S., Instructor in Mechanical Eng'g, Univ. of Illinois, 909 W. Green St., Urbana.
- Harper, Merritt, M.S., Ass't in Agriculture, University of Missouri, Columbia, Mo.
- Harris, Chester Ellis, A.M., Student, Coll. of Medicine, Univ. of Illinois, Springfield Ave., Urbana.
- Harris, Thomas Luther, A.B., Teacher, Modesto.
- Harshman, Louis Romaine, A.B., Contractor of Cement Work, Sullivan.
- Heinzelman, Jacob Harold, A.B., Teacher, Washington.
- Henderson, Alexander, A.B., General Merchandise, 1348 W. 87th St., Chicago. (15 W. Randolph St.)
- Higgins, Francis Whitson, A.B., Chemist, with The Carborundum Co., 418 Riverside, Niagara Falls, N. Y.
- Higgins, Samuel Chase, B.S., Draftsman, Motive Power Dep't, C., R. I. & P. Ry., 7721 Lowe Ave., Chicago. (700 Rock Island Station.)
- Hinshaw, George Jacob, A.B., Ass't Sec'y, O. R. M. A., Ottumwa, Ia.
- Howe, Harriett Emma, B.L.S., Ass't Cataloger, Library Univ. of Illinois, 1205 Stoughton St., Urbana.
- Hughes, Samuel Kelso, LL.B., Real Estate, 829 W. Church St., Champaign. (39 Neil St.)
- Hulce, Jennie Alice, Ph.M., B.L.S., Ass't, with John Crerar Library, 21 Florence Ave., Chicago.

- Hunter, Charles Phelps, A.B., Salesman, Iowa Mercantile Co.,  
Newton, Ia.
- Ingham, Leonard Ward, A.B., Student in Law School, Harvard  
Univ., Clinton.
- James, Harold Demming, A.B., Amboy.
- Johnson, Fred Vollentine, B.S., Draftsman, with Bucyrus Co., 166  
Martin St., Milwaukee, Wis.
- Johnson, John Peter, B.S., Estimator, with Whiting Foundry Equip-  
ment Co., 15420 Lexington Ave., Harvey.
- Jones, Guy Raymond, LL.B., Lawyer, Tuscola.
- Jones, J Claude, A.B., Capt., Manual Training Teacher, 5768 La-  
Salle St., Chicago. (Whiting, Ind.)
- Jones, Henry Leonard, LL.B., Lawyer, Champaign.
- Jones, Warren, A.B., Teacher, W. Side High School, 246 Plum St.,  
Aurora.
- Jutton, Lee., B.S., Ass't Eng'r, Bridge Dep't, C. & N. W. Ry., 114  
Kenilworth Ave., Oak Park. (Room 3, Marine Bldg., Chi-  
cago.)
- Kable, Charles Howard, B.S., Architectural Draftsman, with D. H.  
Burnham & Co., 6224 Madison Ave., Chicago. (Railway Ex-  
change Bldg.)
- Keator, Edward Orris, B.S., Ass't Eng'r, Cincinnati Northern R. R.,  
Van Wert, O.
- Kelly, Arthur Rolland, B.S., 1428 Millard Ave., Los Angeles, Cal.
- Kincaid, Stewart William, A.B., Law Student, Univ. of Illinois,  
1306 W. Main St., Urbana.
- Knight, Lee Irving, A.B., Teacher in High School, Washington,
- Koehn, Anna, A.B., Teacher, 106 Clybourn Ave., Chicago.
- Kofoid, Ruben Nelson, A.B., Analytical Chemist, with The Car-  
borundum Co., 418 Riverside, Niagara Falls, N. Y.
- Lehner, John Conrad, A.B., Real Estate, Stockton.
- Lindgren, Justa Morris, A.B., Chemist, with Nelson, Morris & Co.,  
Moline. (Chicago.)
- Lloyd, George Taylor, A.B., Physical Director, Throop Polytechnic  
Institute, 201 N. Fair Oaks Ave., Pasadena, Cal.
- Lummis, Jessie Isa, A.B., Teacher in High School, Quincy.
- Lund, Hugo, B.S., Mechanical Eng'r, with Ford, Bacon & Davis,  
1657 Summit St., Kansas City, Mo. (1500 Grand Ave.)
- Lundgren, Carl Lee, B.S., Marengo.
- Luther, Otto Lawrence, A.B., Graduate Student, Univ. of California,  
Berkeley, Cal.

- McCarthy, Harry, B.S., Draftsman, with Davenport Machine Wks., 1116 12th Ave., Moline. (Rockingham Road, Davenport, Ia.)
- McCully, Harriett Elizabeth, A.B., Teacher, 407 Daniel St., Champaign. (Rantoul.)
- McGinnis, Mary Ola, A.B., Teacher, Dawson.
- \*McIlvaine, Brown Irwin, LL.B., Died at Tuscola, Jan. 19, 1903.
- McMurry, Karl Franklin, A.B., Teacher in High School, Monmouth.
- Malcolm, Charles Wesley, B.S., Instructor in Bridge Engineering, Univ. of Illinois, 511 E. Green St., Champaign.
- Mapes, John Victor, A.B., Paris.
- Martin, Albert Carey, B.S., Structural Steel Estimator, 316 Walnut St., Johnstown, Pa. (Cambria Steel Co.)
- Martin, James Walter, Jr., A.B., Law Student, University of Illinois, Wilmington.
- Matthews, Robert Clayton, B.S., Capt., Instructor in Engineering Drawing, Univ. of Illinois, 407 E. Green St., Chicago.
- Maxwell, Esther Anna, B.L.S., 203 N. New St., Champaign.
- Miller, John Ezra, A.M., Instructor in Latin, Academy, Univ. of Illinois, 302½ W. Illinois St., Urbana.
- Miller, Thomas Henry, LL.B., Lawyer, Macomb.
- Moore, George Henry, LL.B., Lawyer, 502 Trust Bldg., Los Angeles, Cal.
- Mount, Madison Hoge, B.S., Instructor in Mechanical Drawing, Hackley Manual Training School, Muskegon, Mich.
- Neff, Mary, A.B., Prin., High School, 609 E. Jefferson St., Bloomington. (Atlanta.)
- Norris, Carter, A.B., 5002 Washington Ave., Chicago.
- Odell, Rena May, A.B., Teacher in High School, Morrison. (Litchfield.)
- Omer, Louis, A.B., Teacher in High School, 404 N. Cuyler Ave., Oak Park.
- Oyen, Albert Nelson, A.B., Capt., Student in Rush Medical Coll., 801 N. Rockwell St., Chicago.
- Parker, Lawrence Gilbert, B.S., Instructor in Civil Engineering, Univ. of Illinois, 511 E. Green St., Champaign.
- Patton, Ada, B.L.S., Ass't in Cataloging, John Crerar Library, 3212 Wabash Ave., Chicago.
- Pitts, Henrietta Betsey, A.B., Teacher, 24 White Pl., Bloomington.
- Plant, Francis Benjamin, A.B., Student, Univ. of California, Covina, Cal.

- Poor, Edwin Lindsay, B.S., Law Student, Univ. of Illinois, 311 E. Healy St., Champaign.
- Post, Hiram Franklin, B.S., Capt., Draftsman, with Link Belt Machinery Co., 39th St. and Langley Ave., Chicago. (39th St. and Stewart Ave.)
- Reasoner, Clara Beck, A.B., Teacher of Drawing in Public Schools, Urbana. (Champaign.)
- Reeves, George I, A.B., Capt., Ass't in Entomology, A. E. S., Univ. of Missouri, 103 Price Ave., Columbia, Mo.
- Riley, Anna Bethiar, A.B., Urbana.
- Roberts, Harry Ashton, B.S., Civil Eng'r, 193 N. 11th St., Newark, N. J.
- Rolfe, Mary Annette, A.B., Student Graduate School, Univ. of Illinois, 601 John St., Champaign.
- \*Rose, Alice, A.B., Died at Oak Park, October 3, 1903.
- Rose, Luther Vernon, A.B., Mattoon.
- Sampson, Charles Leonard, B.S., Draftsman, with Austin Mfg. Co., 15412 Center Ave., Harvey.
- Sampson, George Roy, A.B., Student in College of Agriculture, Univ. of Illinois, 311 W. High St., Urbana.
- Sanders, Theodore Marcus, B.S., Architect, Little Rock, Ark.
- Sawyer, Donald Hubbard, B.S., City Eng'r, Paris.
- Schumacher, Tillie Joe, A.B., Teacher in High School, 508 W. North St., Decatur.
- Scudder, Harry Disbro, B.S., U. S. Forestry Service, Box K.K., Pasadena, Cal. (U. S. Bureau of Forestry, Washington, D. C.)
- Shimmin, Robert Philip, B.S., Capt., Draftsman, with Link Belt Machinery Co., 420 E. 41st St., Chicago. (39th St. and Stewart Ave.)
- Smith, Arthur Bourne, Ph.B., B.L.S., Order Dep't, Univ. of California Library, 2515 Manoa Ave., Berkeley, Cal.
- Smith, Ellen Garfield, B.L.S., Ass't in John Crerar Library, 1708 Oakdale Ave., Chicago.
- Smith, Roy, A.B., Teacher of English in Government School, Chofu, Japan.
- Snodgrass, John McBeath, B.S., Instructor in Railway Engineering, Univ. of Illinois, 304 W. University Ave., Urbana.
- Spaulding, Ida May, B.L.S., Mrs. Ralph A. Milner, 489 Jefferson St., Portland, Ore.
- Steele, Lavinia, B.L.S., Iowa Library Commission, Coon Rapids, Ia. (Des Moines, Ia.)

- Steinmayer, Otto Christopher, A.B., Ass't Chemist, A. T. & S. F. R. R., 522 Madison St., Topeka, Kas.
- Stern, Nathaniel, LL.B., Lawyer, 3604 Prairie Ave., Chicago. (835 Stock Exchange Bldg.)
- Stewart, John Pogue, A.B., M.S.A., Teacher, I. S. N. U., Normal.
- Stewart, William Bowen, LL.B., Lawyer, Fayetteville, Ark.
- Swanberg, Floyd Ludwig, B.S., Mechanical Eng'r, with the Lunkenheimer Co., 1015 Chapel St., Walnut Hills, Cincinnati, O.
- Taylor, Helen Mary, A.B., Instructor in Rhetoric, Univ. of Illinois, 402 John St., Champaign.
- Thompson, Frank Linn, A.B., Clerk, Warrensburg.
- Thompson, McDonald, B.S., Draftsman, with Bridge Dep't, I. C. R. R., 458 66th St., Chicago. (1000 Park Row Station.)
- Van Meter, George William, B.S., Architect, 630 W. 7th St., Oklahoma City, Okla. (215½ W. Main St.)
- Von der Lippe, Ernest Carl Frederick, B.S., Student, Cornell Univ., Ithaca, N. Y.
- Waterbury, Leslie Abram, B.S., Instructor in Civil Engineering, Univ. of Illinois, 1017 W. Oregon St., Urbana.
- Wendell, Francis George, B.S., Structural Draftsman, 5476 Penn Ave., Pittsburg, Pa. (1000 Fullerton Bldg., St. Louis, Mo.)
- Wesselhoeft, Charles Dietrich, B.S., Electrical Eng'r, with Kohler Bros., 749 S. Sawyer Ave., Chicago. (1808 Fisher Bldg.)
- Western, Irving Mark, A. B., Capt., Student, College of Law, Univ. of Illinois, Dundee.
- White, James Dunwell, A.B., with Urbana and Champaign R. R., Urbana. (Champaign.)
- Whitehouse, Edith Ursula, A.B., Teacher, Canton.
- Whitson, Milton James, B.S., Capt., Architect, 3610 Lake Ave., Chicago. (172 Washington St.)
- Wilkinson, Nathan, B.S., Sales Agent, with Bullock Electric Co., 5025 Linden Ave., E. Norwood, Cincinnati.
- Williams, Elrick, A.M., Ass't in Chemistry, Univ. of Illinois, 1001 W. Illinois St., Urbana.
- Wilson, Thomas, B.S., Eng'g Dep't, Chicago Edison Co., 4752 Wabash Ave. (139 Adams.)
- Wolff, Solomon, B.S., Capt., Testing Dep't, Bullock Electric Co., 1378 Wyeth Ave., Cincinnati, O.
- Wolleson, Herbert Henry, B.S., Ass't Engineer, with Brenneke & Fay, 825 S. Church St., Belleville. (1000 Fullerton Bldg., St. Louis.)

Wyne, Ervin Evermont, LL.B., with Bank of Vermont, Vermont.  
Zipf, Ferdinand, A.B., Supt. Schools, Peotone.

### CLASS OF 1903

- Abbott, Ruth, B.L.S., Ass't Librarian, School of Education, Univ. of Chicago, 5426 Lexington Ave., Chicago.
- Allen, Edith Louise, A.B., Delavan.
- Allen, Mae Louise, A.B., Stenographer, Urbana.
- Allin, Eugenia, B.L.S., Librarian, James Millikin Univ., 606 W. Jefferson St., Bloomington. (Decatur.)
- Anderson, Mary, A.B., Graduate Student, Univ. of Illinois, Macon.
- Apple, Charles, B.S., Capt., Bridge Draftsman, Robinson. (6400 Harvard Ave., Chicago.)
- Atwood, James Thomas, B.S., Capt., Instructor in Mechanical Eng'r, Univ. of Wisconsin, 412 N. Carroll St., Madison, Wis.
- Baker, Lou, A.B., Teacher in High School, 1117 Jackson St., Charleston.
- Barrett, Charles Vincent, LL.B., Lawyer, 847 W. 22nd St., Chicago. (81 Clark St.)
- Barrett, James Theophilus, A.B., Assistant in Botany at A. E. S., Univ. of Illinois, 926 W. Illinois St., Urbana.
- Bean, Clarence Herbert, B.S., Capt., Chemist, 3809 Michigan Ave., Chicago. (Armour & Co., Laboratory, Union Stock Yards.)
- Bear, Ernest, B.S., Structural Iron Draftsman, 2715 Lincoln St., Ravenswood, Chicago. (North Works, Illinois Steel Co.)
- Bear, Katherine W, A.B., Teacher, 1816 Georgia St., Los Angeles, Cal.
- Beaty, Frances Marion, A.B., Teacher, White Hall.
- Beckman, John Philip, LL.B., Lawyer, 2930 Stern's Bldg., Quincy.
- Beers, LeRoy Fitch, B.S., Draftsman, with Whiting Foundry Equipment Co., 14518 Union St., Harvey.
- Bennett, Stella, B.L.S., R. F. D. 1, Belvidere.
- Berger, John Milton, A.B., Teacher in High School, Dolton Station. (Champaign.)
- Biossat, Harry Armand, LL.B., Lawyer, 5496 Ellis Ave., Chicago. (1213 Tacoma Bldg.)
- Birdzell, Luther Earle, LL.B., Lawyer, 4309 Wabash Ave., Chicago. (704 Marquette Bldg.)
- Black, George W, A.B., Teacher, Oakland.
- Block, Edgar William, B.S., Instrument Man, T. C. R. R., Sidney. (Care of Chief Engineer, T. C. R. R., Nashville, Tenn.)

- Bond, Anna Louise, A.B., 215 S. 10th St., Mt. Vernon.
- Bond, Austin, B.S., Architectural Draftsman, Carmel, Ind.
- Boone, Henry Lehr, A.B., Law Student, Univ. of Illinois, 602 W. Oregon St., Urbana.
- Borton, Lucina Jane, A.B., Teacher in High School, Elm and 2nd Sts., Madison, Ind.
- Bowman, Gertrude, B.L.S., Brimfield.
- Bradshaw, Jessie Isabelle, A.B., 25 Chicago Terrace, Chicago.
- Briggs, Edwin Cressy, B.S., Instructor in Armour Institute of Technology, 905 Kishwaukee St., Rockford. (33rd and Armour Ave., Chicago.)
- Brotherton, Jane Widney, B.S., B.L.S., Delphos, Ohio.
- Brown, Louis, B.S., with Deere & Co., 611 20th St., Moline.
- Buerkin, Marguerite Pauline, A.B., Teacher in High School, 1234 Broadway, Quincy. (Rock Falls.)
- Burkhalter, Wayne Edison, B.S., Ass't in Civil Engineering, Massachusetts Institute of Technology, 2 Aspen St., Roxbury, Boston, Mass.
- Burkhart, Jean, A.B., Merchant, Marion.
- Burrill, Mildred Anne, A.B., Mrs. H. M. Stone, 503 E. Monroe St., Bloomington.
- Campbell, Daisy Irene, A.B., 604 E. Green St., Champaign.
- Carson, Francis Thomas, LL.B., Real Estate, 310 High St., Urbana.
- Cattron, John William, B.S., Stock Raising, Ellisville.
- Cavanor, Frank Tracy, A.B., Capt., with Knickerbocker Ice Co., 6419 Yale Ave., Chicago. (171 LaSalle St.)
- Chacey, Anna Olive, A.B., Teacher in High School, Hillsboro.
- Chamberlain, Martin Tuttle, B.S., Eng'r for Expanded Metal & Fireproofing Co., of Chicago, 222 Globe Bldg., Seattle, Wash.
- Chapman, David Ward, A.B., Vienna.
- Chisholm, Estella Forth, A.B., Teacher in High School, Farmer City. (Sullivan.)
- Clark, Matilda Lenna, A.B., Carthage.
- Clinton, Anna Lucile, B.L.S., Polo.
- Coar, Henry Livingston, A.M., Ph.D., Instructor in Math., Univ. of Illinois, 930 W. Illinois St., Urbana.
- Coen, Homer Clarence, A.B., Law Student, Univ. of Illinois, Olney.
- Conley, John Edward, B.S., Road Supervisor, I. C. R. R., Arcola. (Belleville.)
- Cook, James Fitchie, B.S., Experimental Draftsman, Dundee. (Woodstock.)



- Crosthwait, George Ashley, B.S., Professor of Agronomy and Agronomist of the A. E. S., Univ. of Idaho, Moscow, Idaho.
- Cusick, John Fay, A.B., Teacher, Chrisman.
- Dake, LeRoy Gilbert, A.B., Salesman, 171 Dearborn Ave., Chicago. (48 Madison St.)
- Danahey, Thomas Francis, A.B., 614 N. 13th St., Quincy.
- Daniels, Edna Earle, B.L.S., 427 N. Hazel St., Danville.
- Darlington, Genevieve, B.L.S., Ass't in John Crerar Library, Chicago. (329 S. Stone Ave., LaGrange.)
- Davis, Exum Woodward, A.M., Supt. of Schools, Chenoa.
- Davis, Horatio S, LL.B., Lawyer, 1118 E. Mission, Spokane, Wash. (313-314 Rookery Bldg.)
- Davis, Wilmer Esla, A.B., Principal High School, Zanesville, O. (Rossville.)
- Dawson, Charles Hubbard, A.B., Correspondent for Sears, Roebuck & Co., 379 W. Monroe St., Chicago.
- Dehn, William Maurice, A.M., Ph.D., Instructor in Chemistry, Univ. of Illinois, 407 E. Green St., Champaign.
- DeMotte, Roy James, A.B., Teacher in High School, Sullivan.
- Dickerson, George Hamm, B.S., Sales Agent for the Powers Regulator Co., 6310 Monroe Ave., Chicago. (312, 40 Dearborn St., Chicago.)
- Dickerson, Oliver Morton, A.B., Fellow in Hist., Univ. of Illinois, West Liberty.
- Dodge, Bertha Alma, A.B., B.L.S., Mrs. H. L. Piper, 26 Wendell Ave., Springfield, Mass.
- Dolkart, Leo, B.S., Testing Automatic Switches and Switchboards, 483 W. Belmont Ave., Chicago. (Van Buren and Morgan Sts.)
- Drake, Jeanette May, B.L.S., Decatur.
- Drury, Ralph Southward, B.S., Mechanical Eng'r, with Link Belt Machinery Co., 625 Madison Ave., Chicago. (39th St. and Stewart Ave.)
- Duffy, James Franklin, Jr., B.S., Capt., with Duffy Mfg. Co., 8223 Cornell Ave., Chicago. (125-127 Indiana St.)
- Dunkin, William Van, B.S., Mechanical Engineer, with The Story Mfg. Co., Freeport.
- Eidmann, Gustave Herman, B.S., Chief Assistant in the Clerical and Field Work in Plant Breeding, with Funk Bros. Seed Co., Shirley.
- Fisher, Clara Edna, A.B., 758 W. University Ave., Champaign.

- Fiske, Clarence Wilson, B.S., with Deere & Co., 611 20th St., Moline.
- Forbes, Ethel Clara Schumann, A.B., Teacher in Univ. of South Dakota, 1209 W. Springfield Ave., Urbana. (Vermilion, S. Dak.)
- Forbes, Marjorie Douglas, A.B., Teacher, 920 W. Illinois, Urbana. (321 5th St., Dixon.)
- Franklin, Lois Gertrude, A.B., Teacher in High School, Dwight. (209 E. Green St., Champaign.)
- French, Maurice Dean, B.S., Draftsman, with Chicago Edison Co., 63345 Washington Ave., Chicago. (139 Adams St.)
- Gage, Ralph Hawes, B.S., Civil Eng'r, with A. Bolter's Sons, 1428 Graceland Ave., Chicago. (Ward St. and Belden Ave.)
- Garden, Henry Rhiel, B.S., Eng'r and Supt., with Yawger & Baltefeld, Lockport. (10 Fair Bldg., Indianapolis, Ind.)
- Garver, Willia Katheryn, B.L.S., Organizer, Pekin Public Library, Bloomington. (Pekin.)
- Gaston, Ralph Mayo, B.S., Draftsman, with Sargent & Lundy, 6345 S. Washington Ave., Chicago. (1100, 46 E. Van Buren St.)
- Gavin, John Francis, LL.B., Lawyer, 4249 Wabash Ave., Chicago. (1222 First National Bank Bldg.)
- Gilkerson, Frances Emeline, A.B., Graduate Student, Univ. of Illinois, 1105 California St., Urbana.
- Goble, Roxana, A.M., Teacher, Westfield.
- Gold, Katharine Eaton, B.L.S., Library Ass't in Public Library, 209 Union St., Joliet.
- Goodale, Grace, B.L.S., Instructor in Library Economy, Univ. of Illinois, 112 E. Green St., Champaign.
- Green, Charles Henry, B.S., Eng'r, Sterling. (1208 Fisher Bldg., Chicago.)
- Green, Clarence, A.B., Teacher in High School, Urbana.
- Grove, Rollo Burdette, LL.B., Lawyer, Ottawa.
- Havermeyer, George Conrad, B.S., Civil Eng'r, Aurora.
- Hagey, Emma Joanna, A.B., B.L.S., Librarian, Norfolk, Neb. (Beatrice, Neb.)
- Haight, Samuel John, Jr., B.S., Farmer, Menden. (R. F. D. 42, Earlville.)
- Hartline, Herman Eugene, LL.B., Anna.
- Hauter, Andrew Edgar, LL.B., Lawyer, Rockford.
- Hawley, Edna May, B.L.S., 1341 Farwell Ave., Rogers Park, Chicago.

- Hayhurst, Emery Roe, A.B., Capt., Ass't in Physiology, Univ. of Illinois, Maywood.
- Hayward, Mabel, B.L.S., Cataloger in Gail Borden Public Library, 5418 Washingt'n Ave., Chicago. (Elgin.)
- Heath, Lillian, A.B., White Heath.
- Henderson, Mary, B.L.S., Cedar Rapids, Ia.
- Herrick, Lyle George, A.B., Law Student, Univ. of Chicago, Farmer City.
- Hetherington, Benjamin, LL.B., Lawyer, 757 LaHarpe St., LaSalle.
- Higgins, Charles Huntington, B.S., Ass't Chemist, with Swift & Co., Union Stock Yards, 161 E. 46th St., Chicago.
- Hoff, Edna DuBois, A.B., Ass't in Chemistry, Univ. of Illinois, 1308 W. Springfield Ave., Urbana.
- Holder, Vernon Milner, B.S., Architectural Draftsman, with General Electric Co., 427 Summit Ave., Schenectady, N. Y.
- Holderman, Marjorie Campbell, 804 California Ave., Urbana.
- Huntington, Ellen Alden, A.B., Teacher and Supt. of Household Aid Co., 26 Charter Oak Place, Hartford, Conn. (88 Charles St., Boston.)
- Hyde, Sophie, A.B., Student in Library School, Univ. of Illinois, 620 LaSalle Ave., Chicago.
- Ingersoll, Frank Bruce, B.S., Instrument Man, C. & N. W. Ry., Deadwood, S. Dak.
- Inks, Frank Emerson, A.B., Machinist, with Kimball & Co., 921 Spaulding Ave., Chicago. (22nd and Rockwell Sts.)
- Ireland, Washington Parker, B.S., Ass't Eng'r, with C. B. Pride, 6341 Eggleston Ave., Chicago.
- Jackson, Fanny Rebecca, A.B., B.L.S., Instructor in Library School, Univ. of Illinois, 802 W. Illinois St., Urbana.
- Jarman, Henry Phelps, B.S., Chemist, with Nelson Morris & Co., 637 E. 43d St., Chicago. (Union Stock Yards.)
- Jennings, Anna Vivian, B.L.S., Ass't Librarian State Normal School, Peru, Neb.
- Johnson, Albert Myron, B.S., Draftsman, with Davis Johnson Co., 204 Cass St., Chicago. (47 S. Canal St.)
- Johnson, Frederick Dawson, B.S., Special Apprentice, B. & O. Ry., 1410 Hollins St., Baltimore, Md.
- Kelly, Grace Osgood, B.L.S., Cataloger, Univ. of Illinois, 1001 W. Illinois St., Urbana.
- Kennedy, Helen Theresa, B.L.S., 1030 Grove St., Jacksonville.
- Kingston, Elwood Almon, A.B., M.D., Physician, Lockport.

- Knowlton, William David, A.B., Switchboard Man, with Chicago Telephone Co., 163 Lincoln Ave., Chicago. (22 Seeley Ave.)
- Kofoid, Mrs. Prudence Winter, A.M., 2615 Channing Way, Berkeley, Cal.
- Kuss, Robert Hayden, B.S., Instructor in Mechanical Eng'g, Univ. of Illinois, 909 W. Green St., Urbana.
- Kutsch, William Adelbert, B.S., Chemist, with Armour & Co., 3809 Michigan Ave., Chicago. (Union Stock Yards.)
- Langworthy, Caroline Valeria, B.L.S., 485 Hill St., Dubuque, Ia.
- Larson, Laurence Fred, A.B., Student Graduate School, Univ. of Illinois, Galva.
- Larson, Nels Alfred, LL.B., Moline. (Rock Island.)
- Lefler, Emma Grace, B.L.S., Pontiac.
- Lego, Lulu Mackintosh, LL.B., Clerk, with Dean of Graduate School, Univ. of Illinois.
- Lentz, Mary, A.B., Teacher, Freeport. (Farmer City.)
- LeSourd, Alfred Curtis, B.S., Topeka.
- Lloyd, Robert Clinton, B.S., with A. E. S., University of Illinois, Canton.
- McFarland, John Albert, B.S., Chemist, with A. T. & S. F. Ry., 1028 Harrison St., Topeka, Kas.
- McRobie, Isabel, A.B., 6439 Drexel Ave., Chicago.
- Mann, Alice Calhoun, B.L.S., Public Library, Covington, Ky.
- Marker, George Edward, A.B., Graduate School, Columbia Univ., Onarga.
- Martin, Grace E, LL.B., Lawyer, 209 E. White St., Champaign. (30 Main St.)
- Mathews, Clyde Milton, LL.B., Lawyer, Urbana.
- Matthews, Mary Alice, B.L.S., Ass't Cataloger, Library of Congress, 417 A St., S. E., Washington, D. C.
- Mell, John DeLoss, LL.B., Lawyer, San Jose.
- Merrill, Julia Wright, B.L.S., with Wisconsin Free Library Commission, 404 N. Carroll St., Madison, Wis. (Capitol Bldg.)
- Mills, Ralph Garfield, A.B., Student, Northwestern Medical Coll., 356 W. Decatur St., Decatur. (22414 Prairie Ave., Chicago.)
- Morgan, Stella Webster, A.B., Principal High School, Long Beach, Cal. (Ashland, Ill.)
- Myers, Winifred, A.B., Champaign.
- Nees, Frederick L, LL.B., Lawyer, 1221 Perry St., Chicago. (905 Ft. Dearborn Bldg., Chicago.)

- Nelson, Charlotte Briggs, A.B., B.S., 710 N. East St., Bloomington.
- Nesbit, Mary Frances, A.B., Teacher, Oakland. (Arcola.)
- Noble, Thomas, B.S., 1230 Waco Ave., Wichita, Kas.
- Noe, Samuel Rufus, A.B., Teacher, Auburn.
- Ogden, Charles Louis, LL.B., Cameron.
- Oxer, George Carroll, with General Electric Co., 1618 Chapel St., Schenectady, N. Y.
- Parker, Roy Sheldon, A.B., Graduate Student, U. of I., Toluca.
- Parr, Robert William, Teacher in High School, Mapleton, Ill. (Pontiac.)
- Petersen, Christian Peter Lauritz, B.S., 6231 Monroe Ave., Woodlawn, Chicago.
- PettyJohn, James William, LL.B., Lawyer, with Marshall Field Credit Dep't, 308 E. 60th St., Chicago.
- Pollard, Charles Robert, LL.B., Lawyer and Sec'y, with the Harris Compressed Air Pump Co., Indianapolis, Ind.
- Powers, George Augustus, A.B., Bookkeeper, with Frankfort Big Muddy Coal & Coke Co., Edinburg. (Frankfort.)
- Prater, Banus Hutson, B.S., Capt., Instructor in Civil Eng'g, Univ. of Illinois, 608 E. Green St., Champaign.
- Price, Hugh Mitchell, B.S., Capt., Civil Eng'r, C. & A. R. R., Slater, Mo.
- Provine, Loring Harvey, B.S., Capt., Architectural Eng'r, with Patton & Miller, 528 W. Adams St., Chicago. (153 LaSalle.)
- Quayle, Henry Joseph, A.B., Capt., Ass't in Entomology, Univ. of California, Berkeley, Cal.
- Ramsey, William Everton, A.B., B.S., with Expanded Metal Fireproofing Co., 6605 Howard Ave., Chicago. (790 Old Colony Bldg.)
- Randall, Bertha Thatcher, B.L., B.L.S., Instructor in Library Economy, Univ. of Illinois, 1002½ California Ave., Urbana.
- Rhea, Frank Hiatt, LL.B., Bloomington.
- Richey, John Jefferson, B.S., Instructor in Mechanics, Univ. of Illinois, Urbana.
- Rightor, Frederick Elmer, B.S., Civil Eng'r, with I. C. R. R., 522 Napoleon St., Rockford.
- Rolfe, Susie Farley, A.B., 601 E. John St., Champaign.
- Rose, Fred Wayland, B.S., Capt., with Arnold Electric Power Station Co., Mazon. (Chicago.)

- Rutt, Roy Weaver, B.S., Experimental Draftsman, Woodstock.
- Sawyer, George Loyal, B.S., Sanitary Eng'r, 3410 Rhodes Ave., Chicago. (1715 Marquette Bldg.)
- Schacht, John Henry, B.S., 1444 13th St., Moline.
- Schmidt, Gustavus Adolphus, A.B., Capt., Teacher in High School, Sterling.
- Seymour, Budd Willard, B.S., Draftsman, with Morava Construction Co., 6400 Harvard Ave. (85th St. and Stewart Ave.)
- Sheldon, Maud Lillian, A.B., Teacher in High School, Avon.
- Sheldon, Victor Lorenzo, B.S., Mechanical Eng'r, Supt, with Curtis & Co. Mfg. Co., 4653 Delmar Blvd., St. Louis, Mo. (2211 Washington Ave.)
- Shelton, Addison M, Principal Schools, Loami. (Nunda.)
- Shoemaker, John Earl, A.B., Student in Civil Eng'g, Univ. of Illinois, Charleston.
- Siler, Roderick William, B.S., Civil Eng'r, 6335 Drexel Ave., Chicago.
- Simpson, Frances, M.L., B.L.S., Ass't Professor Library Economy, Univ. of Illinois, 802 W. Illinois St., Urbana.
- Skinner, Elgie Ray, B.S., Ass't Purchasing Agent, with Corn Products Co., 290 Rust St., Chicago.
- Smith, Charles Henry, A.M., Professor of Hist., Goshen College, Goshen, Ind.
- Smith, Charles Wesley, A.B., Student, Library School, Univ. of Illinois, Lockwood, N. Y.
- Spriggs, John Jack, A.B., Louisville.
- Stahl, Garland, LL.B., Lawyer, Elkhart.
- Stansbury, Alta Louise, B.L.S., Librarian, Public Library, 461 E. Griswold St., Port Huron, Mich.
- Steinwedell, Carl, B.S., Student in Mechanical Eng'g, Univ. of Illinois, 575 N. 8th St., Quincy.
- Stevens, Lucia Alzina, A.B., Teacher, Marengo.
- Stone, Clyde Ernest, LL.B., Lawyer, Peoria.
- Stone, Hal Marot, LL.B., Lawyer, 503 E. Monroe St., Bloomington. (330 Unity Bldg.)
- Storey, Ellsworth Prime, B.S., Architect, 4342 Brooklyn Ave., Seattle, Wash. (New York Block.)
- Street, Marietta Louise, B.L.S., Library Organizer, 509 3rd St., Dixon.

- Strehlow, Cornelia Emma, A.B., Teacher of French and German, Linderwood College, St. Charles, Mo.
- Strom, Alexander Jennings, LL.B., Lawyer, 149 Lunt Ave., Rogers Park, Chicago. (516 Roanoke Bldg.)
- Stuebe, Leonard Frederick, B.S., Architect, 701 W. Williams St., Danville. (305 1st Nat'l Bank Bldg.)
- Stutsman, Adah Helen, A.B., Teacher in High School, 807 Madison St., Quincy.
- Sussex, James Wolfe, B.S., Ass't Eng'r, with A. Potter, 107 Halsey St., Newark, N. J.
- Swezey, Anne Davies, B.L.S., Library Work, Hinsdale.
- Taff, Albert Edgar, LL.B., Student in Law Office, Canton.
- Vance, Edna Cecilia, Mrs. J. J. Spriggs, Louisville.
- Van Dervort, Paul Raymond, LL.B., Tiskilwa.
- Varnes, Albert Grafton, B.S., Civil Eng'r, Division Eng'r's Office, Baraboo, Wis.
- Wolcott, Lloyd Vernon, A.B., Student in Coll. of Law, Univ. of Illinois, Urbana.
- Wallace, Jacob H, B.S., Instructor in Mechanical Eng'g, Univ. of Missouri, Columbia, Mo.
- Ward, Robert Russell, LL.B., Banker and Sec'y of Coal Co., Benton.
- Wardall, Ruth Aimée, Instructor in Domestic Science, State Agricultural Coll., Brookings, S. Dak.
- Webber, Pearl, Teacher, 709 W. Green St., Urbana. (Georgetown.)
- Welles, Miriam Ursula, A.B., Graduate Student, Univ. of Illinois, Malden.
- Wells, Frederick Mason, B.S., Ranching, Imperial, Cal.
- Westhold, Hannah Amanda, A.B., Teacher in High School, R. F. D. 4, Quincy. (604 W. Main St., Urbana.)
- Whitsitt, Hammond William, B.S., Capt., Instructor in Eng'g, Drawing, Univ. of Illinois, 926 W. Illinois St., Urbana.
- Wiley, Vonie Ames, B.L.S., Ass't in Public Library, 708 E. Denny Way, Seattle, Wash.
- Williams, Walter Winslow, LL.B., Lawyer, Benton.
- Wilson, George Shirley, A.B., Principal High School, Bement.
- Wilson, Joseph Wade, B.S., Fellow in Architecture, Univ. of Illinois, 926 W. Illinois St., Urbana.
- Woodmansee, Ralph Cullom, B.L.S., Loan Desk, Library of Univ. of Illinois, 605 E. Healy St., Champaign.

- Woodworth, Metta Edna, A.B., in Domestic Science Dept. of  
Farmers' Institute, 2043 Lincoln St., Berkeley, Cal.
- Worth, Lynne Griswold, B.L.S., 6619 Rhodes Ave., Chicago.
- Zangerle, Arthur Norman, B.S., Chemist, with Wahl & Henins, 157  
Janssen Ave., Chicago. (294 S. Water St.)
- Zartman, Lester William, A.B., Fellow in Economics, Univ. of Illi-  
nois, Grant Park.







COLLEGE OF MEDICINE BUILDING

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\*Buchanan, R. W.  
Buchanan, Walter W., M.D., 1318 Wabash Ave., Chicago.  
Burke, Thomas F., M.D., DeWitt, Ia.  
Caldwell, Francis C., M.D., 167 Dearborn, Chicago.  
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Lovejoy, Walter, M.D., Kemmerer, Wyo.  
McCullough, J. R., M.D., 37 Park Ave., Chicago.  
Mathieu, L., M.D., St. Anne.

Maxon, O. P., M.D., Waukegan  
 Morton, R. J., M.D., Green, Kas.  
 Riggs, J. S., M.D., Redlands, Cal.  
 Robertson, W. M., M.D., 832 Jackson Blvd., Chicago.  
 Roehr, C. G., 103 State St., Chicago.  
 Ross, I. N., M.D., Belle Plaine, Kas.  
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 \*Sherman, F L.  
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 Soper, J. H., M.D., 347 Noe St., San Francisco, Cal.  
 \*Spencer, T. H.  
 \*Sweat, I. M.  
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 Thompson, C.M., M.D., Elk Rapids, Mich.  
 Van Tuyl, E. A., M.D., Riverside.  
 Walrath, H. S., M.D., 11 East 17th St., St. Paul, Minn.  
 Weaver, Wm. H., M.D., 126 State St., Chicago.  
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#### CLASS OF 1884

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 Bellamy, William Thomas, M.D., Pleasant View.  
 Bird, John Henry, M.D., 11 Congress St., Chicago.  
 \*Blakeslee, N. P.  
 Brick, Samuel L., M.D., Ogden, Utah.  
 Brumback, Arthur H., M.D., 109 Loomis St., Chicago.  
 Chittenden, R. H., M.D., Mound City, Mo.  
 Church, Archibald, M.D., 805 Pullman Bldg, Chicago.  
 Coomes, Asa, M.D., Streator.  
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 Doig, J. R., M.D., Russell, Kas.  
 Edelin, Benedict H., M.D., Gorin, Mo.  
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 Harkness, George S., M.D., Stockton, Cal.  
 Harlan, Alison W., M.D., Masonic Temple, Chicago.  
 Harrison, W. K., M.D., 103 State St., Chicago.  
 Hatton, William D., M.D., Memphis, Mo.  
 Horrell, Charles B., M.D., Galesburg.  
 Horton, Jackson D., M.D., Nashua, Ia.  
 \*Houghland, A. C.  
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 Jenckes, Herbert D., M.D., Pipestone, Minn.  
 \*Jones, R. W.  
 Jordan, L. M., M.D., 21 W. Ohio St., Indianapolis, Ind.  
 Luckey, C. M., M.D., Baldwin, Ia.  
 Lumbeck, Frank, M.D., Kingston, O.  
 Mathers, W. R., M.D., Rock Hill, Texas.  
 Mikkelson, M., M.D., Wells, Minn.  
 Mitchell, T. B., M.D., 348 S. Campbell Ave., Chicago.  
 Morrison, D. M., M.D.  
 \*Munzer, I.  
 Printz, E. T., M.D., Moulton, Ia.  
 Raimonde, L. S. J., M.D., San Francisco, Cal.  
 Reiley, I. H., M.D., 168 W. 23d St., New York.  
 \*Romans, L. L.  
 Sawyer, F. M., M.D., South Bend, Ind.  
 Schmitz, E. A., M.D., Wauwatosa, Wis.  
 \*Shearer, I. W.  
 Stevenson, P. W., M.D., Easton, Pa.  
 Sweemer, W. M., M.D., 622 11th St., Milwaukee, Wis.  
 Van Patten, L., M.D., St. Charles.  
 Wassall, J. W., M.D., 208 Dearborn Ave., Chicago.  
 Whitnall, William R., M.D., Hastings, Ia.  
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**CLASS OF 1885**

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 \*Bahnsen, W. J.  
 Brinkerhoff, Clarence E., M.D., 182 N. Halsted St., Chicago.

- Brinkerhoff, G. Erwin, M.D., 1003 Broadway, Oakland, Cal.  
 Bundy, William C., M.D., Aurelia, Ia.  
 Caldwell, W. C., M.D., 174 S. Halsted St., Chicago.  
 Cook, E. L., M.D., Harlan, Ia.  
 Crowley, D. D., M.D., 1068 Broadway, Oakland, Cal.  
 Cummings, Charles G., M.D., 171 E. 7th St., St. Paul, Minn.  
 Davis, Thomas A., M.D., 979 Jackson Blvd., Chicago.  
 Drost, Casper M., M.D., Grand Rapids, Mich.  
 Dunning, Arthur W., M.D., Arcade Building, St. Paul, Minn.  
 Eagleson, James B., M.D., Seattle, Wash.  
 Earle, Frank B., M.D., 903 Monroe St., Chicago.  
 Eddy, William J., M.D., Shelbyville.  
 Fallis, Charles W., M.D., Danville.  
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 Harvey, W. Scott, M.D., Salina, Kas.  
 Herb, Samuel M., M.D., Geneva, Neb.  
 Henry, James M., M.D., Hildreth, Neb.  
 Hood, Calvin T., M.D., 1276 Washington Blvd., Chicago.  
 Johnson, Hartland C., M.D., 176 Concord St., St. Paul, Minn.  
 Kiskadden, H. S., Detroit, Mich.  
 Kynett, William H., M.D., Battle Creek, Mich.  
 Latta, Ulysses G., M.D., 70 Madison St., Chicago.  
 Luce, Joseph E., M.D., Chilton, Wis.  
 Martin, J. A. J., M.D., Red Oak, Ia.  
 Malone, Edward William, M.D., Oconomowoc, Wis.  
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 Murray, A. J., M.D., Frederickton Junction, New Brunswick.  
 Paul, I. O., M.D., Winnebago.  
 Pearce, W. W., M.D., Waukegan.  
 Phelps, G. M., M.D., Kankakee.  
 Phillips, J. B. C., M.D., 9 Palmetto St., Brooklyn, N. Y.  
 Pierce, N. H., M.D., 521 Dearborn Ave., Chicago.  
 Raymer, H. S., M.D., Cedar Rapids, Ia.  
 Robey, F. R., M.D., Cedar Rapids, Ia.  
 Rogers, B. W., M.D., Milwaukee, Wis.  
 Safley, L. E., M.D., Bozeman, Mont.

Safley, W. M., M.D., Bozeman, Mont.  
 Senn, F. C., M.D., Oshkosh, Wis.  
 Shepherd, W. W., M.D., 108 Loomis St., Chicago.  
 Sherwood, O. W., M.D., West Port, Cal.  
 Stevens, J. S., M.D., Cedar Falls, Ia.  
 Sutherland, D. E., M.D., Bay City, Mich.  
 Tebbetts, F. M., M.D., Adams and Hoyne Ave., Chicago.  
 Tobias, G. J., M.D., 100 Washington, Chicago.  
 \*Thompson, J. R.  
 Tollington, G., M.D., Masonic Temple, Chicago.  
 Trulson, T. A., M.D., Stanton, Ia.  
 VanHook, W., M.D., 4043 Grand Blvd., Chicago.  
 Wagner, A. L., M.D., Eglon, W. Va.  
 \*Waldron, J. M.  
 Winstead, M. L., M.D., Wetaug.

#### CLASS OF 1886

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 Bell, Allen, M.D., Sallisaw, I. T.  
 Bertrand, J. H., M.D., De Forest, Wis.  
 Boice, George W., M.D., 1155 S. Western Ave., Chicago.  
 Brainard, Benjamin F., M.D., Martin City, Mo.  
 Brendecke, A. C., M.D., 242 W. Randolph St., Chicago.  
 Brigham, Brayton A., M.D., 103 State St., Chicago.  
 Brinkerhoff, W. C., Steinway Hall, Chicago.  
 Brock, William B., M.D., Olin, Ia.  
 \*Brown, Robert A., M.D.  
 Buttner, W. Adolph, M.D., 729 Lincoln Ave., Chicago.  
 Case, Charles E., M.D., Tacoma, Wash.  
 Chidester, Chancy W., M.D., Burton, O.  
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 Fortner, Elbert C., M.D., Paulina and Jackson Blvd., Chicago.

- Gallison, Frank E., M.D., Point Arena, Cal.  
 Gibson, James, M.D., Janesville, Wis.  
 Goldstein, Louis, M.D., Beaumont, Tex.  
 \*Hall, D. W.  
 Hass, Archibald, M.D., 1046 N. Western Ave., Chicago.  
 Henderson, N. H., M.D., 4147 Lake Ave., Chicago.  
 Hileman, J. E., M.D., Dallas, Tex.  
 Holmboe, Antoin, M.D., 128 Oak St., Chicago.  
 Johnston, Stuart William, M.D., Venetian Building, Chicago.  
 Kane, William W., M.D., Pinckneyville.  
 Kaszer, Jacob, M.D., Plymouth, Ind.  
 Knapp, William H., M.D., 106 Wabash Ave., Chicago.  
 Laughlin, Willet H., M.D., Arlington Heights.  
 Lee, Julius H., M.D., 609 N. Maplewood Ave., Chicago.  
 Loope, G. L., M.D., Bessemer, Mich.  
 Lowe, F. O., M.D., Kewanee.  
 McCallum, William, M.D., Gladstone, Mich.  
 McClellan, J. J., M.D., 1115 N. High St., Columbus, Ohio.  
 McCracken, T., M.D., Puyallup, Wash.  
 McGlasson, T. F., M.D., Lewiston, Mo.  
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 China.  
 Marnes, C. M., M.D., Rouse Point, N. Y.  
 Martin, E. C., M.D.  
 \*Merrill, S. B. L., M.D.  
 Miller, B., M.D., 1714 N. Halsted St., Chicago,  
 Miller, E., M.D., Kensington.  
 Miller, W. H., M.D., Hanford, Tulare County, Cal.  
 Mitchell, L. J., M.D., 498 W. Adams St., Chicago.  
 Parsons, G. F., M.D., 3904 Cottage Grove Ave., Chicago.  
 Peabody, H. A., M.D., Webster, S. D.  
 Rittenhouse, W. F., M.D., 975 Warren Ave., Chicago.  
 Roberts, William, M.D., Watseka.  
 Rogers, H. S., M.D., Red Oak, Ia.  
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 Smith, G. E., M.D., Masonic Temple, Chicago.  
 Taggart, T. E., M.D., Bakersfield, Cal.  
 Tillotson, H. T., M.D., 6301 Wentworth Ave., Chicago.  
 \*Turnock, E.



Weir, William A., M.D., Edinburg, O.  
 Wiggin, T. B., M.D., Reliance Bldg., Chicago.  
 \*Wikkerink, G.  
 Williams, J. R., M.D., White Pigeon, Mich.  
 Wilson, A. R., M.D., 1053 Walnut Ave., Milwaukee, Wis.  
 Wintermute, C. E., M.D., Kilbourn, Wis.  
 Wisse, I., M.D., 18 W. Bridge St., Grand Rapids, Mich.

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 Casey, Samuel B., M.D., 542 Hancock St., Brooklyn, N. Y.  
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 Fisher, John, M.D., 489 Belden Ave., Chicago.  
 Flint, Edward N., M.D., St. Paul, Minn.  
 Flower, Ward Z., M.D., Gibbon, Minn.  
 Fredigke, Charles C., M.D., 3414 State St., Chicago.  
 Gile, Ulysses A., M.D., Montesano, Wash.  
 Goodsmith, Heber M., M.D., 396 Belden Ave., Chicago.  
 Hanson, F. A., M.D., Abrams, Wis.  
 Harris, Philander H., M.D., 426 Milwaukee St., Milwaukee, Wis.  
 Hart, Albert T., M.D., Bliss, N. Y.  
 Hektoen, Ludwig E., M.D., 5803 Washington Ave., Chicago.  
 \*Heffelfinger, W. W.  
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 Hulen, Vard H., M.D., 2116 Market St., Galveston, Tex.  
 Hund, J., M.D., Wausau, Wis.  
 Johnston, A. Ralph, M.D., 4147 Lake Ave., Chicago.  
 Jones, Richard H., M.D., Cullom.  
 Kaumheimer, G. J., M.D., 508 Third St., Milwaukee, Wis.  
 Kincheloe, M. B., M.D., Joplin, Mo.  
 Klophel, C. G. B., M.D., Utica, N. Y.  
 \*Koontz, S. E.  
 Kordenat, C. F. W., M.D., Reedsburg, Wis.  
 Lane, Myron E., M.D., Champaign.  
 McNamara, J. M., M.D., 5503 S. Halsted St., Chicago.

McNulty, C. A., M.D., Basin, Mont.  
 Miller, R. C., M.D., Shannon.  
 Miller, W. E., M.D., 1143 California Ave., Chicago.  
 Moraux, J. D., M.D., Green Bay, Wis.  
 Mulder, D., M.D., Sioux City, Ia.  
 Norderling, K. A., M.D., 1684 N. Clark St., Chicago.  
 O'Connell, Jefferson J., M.D., Honesdale, Pa.  
 Oviatt, Charles W., M.D., Maple Lodge, Oshkosh, Wis.  
 Remmen, N. E., M.D., 610 W. North Ave., Chicago.  
 Richmond, J., M.D., Loyal, Wis.  
 Roberts, J. C., M.D., Second and Spencer Sts., Peoria.  
 Sargent, J. S., M.D., Ferndale, Cal.  
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 Schneider, A., M.D., 87 Lake St., Chicago.  
 Sweet, C. A., M.D., E. Jordan, Mich.  
 Volding, N. M., M.D., Cherokee, Ia.  
 \*Ward, C. B.  
 Way, J. P., M.D., 12th St. and Western Ave., Chicago.  
 Weil, C. A., M.D., 704 Belmont Ave., Chicago.  
 Whiting, J. B., M.D., City Hospital, Janesville, Wis.  
 Wirt, G. M., M.D., Decatur, Mich.

#### CLASS OF 1888

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 \*Bulson, H. R., M.D.  
 Burrell, H. L., M.D., 206 McCagne St., Omaha, Neb.  
 Burrows, A. W., M.D., Commercial Blk., Salt Lake City, Utah.  
 Burson, S. W., M.D., 103 State St., Chicago.  
 Cameron, Neil, M.D., Burwell, Neb.  
 Casey, Levi B., M.D., Marion.  
 \*Coe, M. F.  
 Coker, William W., M.D., 2802 Archer Ave., Chicago.  
 Cullen, Frank C., M.D., 350 Loomis St., Chicago.  
 \*Davis, J. H.  
 Duckworth, Frank E., M.D., Kearney, Neb.  
 Fall, Clifford, M.D., Beatrice, Neb.  
 Feltenstein, David W., M.D., Voris, Mo.

- Fowler, William S., M.D., 38 Madison St., Chicago.  
 Glover, John F., M.D., Evansville, Ind.  
 Haines, Thomas J., M.D., Three Rivers, Mich.  
 Harris, B. Y., M.D., Box 422, Eureka, Cal.  
 Holliday, Henry A., M.D., Amery, Wis.  
 Hueston, David P., M.D., 24 Homer St., Chicago.  
 Jones, David T., M.D., Wausau, Wis.  
 Malone, W. F., M.D., 333 Greenbush St., Milwaukee, Wis.  
 Mattison, F. C. E., M.D., Pasadena, Cal.  
 Michael, R. R., M.D., Ferndale, Cal.  
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 Shallern, B. V., M.D., Ripon, Wis.  
 Shidler, S., M.D., Sheridan, Mo.  
 Sinclair, J. D., M.D., 3455 Cottage Grove Ave., Chicago.  
 Staib, O. W., M.D., Bartlett.  
 Stanton, J. T., M.D., 179 N. Halsted St., Chicago.  
 Sterling, C., M.D., Sacramento, Cal.  
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 Towle, W. B., M.D., 197 St. Urbain St., Montreal, Canada.  
 White, H. E., M.D., Campus.  
 Williamson, L. R., M.D., 29 Clarke St., Milwaukee, Wis.  
 \*Wood, J. J.  
 Wylie, D. B., M.D., Grand Opera House Blk., Milwaukee, Wis.

#### CLASS OF 1889

- Borland, S. F., M. D., 11 Clayton Blk., Denver, Colo.  
 Burcky, William E., M.D., 6641 S. Halsted St., Chicago.  
 \*Cady, G. M.  
 Cargill, Chauncey W., M.D., Mason City.  
 Cheney, Franklin S., M.D., 88 N. Kedzie Ave., Chicago.  
 Cronk, Harvey R., M.D., 27 E. 30th St., New York, N. Y.  
 Crosby, Isaac F., M.D., Menlo, Ia.  
 Dempster, William H., M.D., Cummings, Ia.  
 Dougherty, B. F., M.D., Chariton, Ia.  
 Eames, H. F., M.D., Egg Harbor, Wis.  
 Eddy, J. Henry, M.D., 903 E. Eldorado St., Decatur.

- Ewing, Harry P., M.D., 526 65th St., Chicago.  
 Gillmore, C. Marsh, M.D., Markesan, Wis.  
 Gluck, Isidor, M.D., Profesa, Mex.  
 \*Godard, W. A.  
 Grace, Thomas J., M.D., Clark's Mills, Pa.  
 Gray, Albert S., M.D., 103 State St., Chicago.  
 Hebert, O., M.D., 711 3rd St., Milwaukee, Wis.  
 Hibbs, G. B., M.D., Mitchelville, Ia.  
 Holbrook, F. D., M.D., 100 State St., Chicago.  
 Hornbogen, Alfred W., M.D., Marquette, Mich.  
 Karreman, A. R., M.D., 534 W. 63rd St., Chicago.  
 Kennicott, P. A., M.D., Glenview.  
 Leusman, Frederick, M.D., 270 E. Huron St., Chicago.  
 Liddy, T. F., M.D., 31st and Wallace Sts., Chicago.  
 Linden, F. C., M.D., 748 S. Halsted St., Chicago.  
 Loewy, Arthur, M.D., 109 S. Pine St., Chicago.  
 \*Luce, J. O.  
 MacCornack, E. A., M.D., 2 Nalbing Blk., Elgin.  
 Martin, E., M.D., 3919 Indiana Ave., Chicago.  
 Moras, E. R., M.D., 1241 2nd St., Duluth, Minn.  
 Morton, A. J., M.D., Williamsfield.  
 Moyers, L. E., M.D., Fairdale.  
 Munford, J. R., M.D., 5027 Pennsylvania Ave., Pittsburg, Pa.  
 Onstott, E. E., M.D., Saltsburg, Pa.  
 Owen, William R., M.D., Sublette.  
 Phar, W. I., M.D., Goodwine.  
 Porter, W. J., M.D., Hedrick, Ia.  
 Post, G. A., M.D., 70 State St., Chicago.  
 Powell, Preston, M.D., Adair, Ia.  
 Radley, J. H., M.D., Hartford, Conn.  
 Rogers, F. W., M.D., Hartford, Wis.  
 Stremmel, S. C., M.D., Macomb.  
 Soule, C. E., M.D., Sheridan.  
 Terry, C. C., M.D., South Bend, Ind.  
 Walford, E. S., M.D., Detroit, Mich.  
 Walsh, T. M., M.D., Jefferson City, Mo.  
 Warren, H. S., M.D., 1360 Jackson Blvd., Chicago.  
 Watson, E. L., M.D., Bode, Ia.  
 Wermuth, W. C., M.D., 277 Bissell St., Chicago.

## CLASS OF 1890

- Abbey, C. D., M.D., 6913 Stewart Ave., Chicago.  
Bagnell, George D., M.D., Millbrook, Pa.  
Ballard, W. H., M.D., Los Angeles, Cal.  
Bellack, B. F., M.D., Columbus, Wis.  
Bennett, O. P., M.D., Mazon.  
Bowen, Fred J., M.D., Mt. Morris.  
Brick, Paul L., M.D., LeMars, Ia.  
Cole, T. E., M.D., LeMars, Ia.  
Corbett, Matthew, M.D., 1082 W. 12th St., Chicago.  
Dahl, Svenning, M.D., 100 State St., Chicago.  
Darling, U. Grant, M.D., 1001 Madison St., Chicago.  
Dodd, Oscar, M.D., 103 State St., Chicago.  
Doepp, Edward A., M.D.; Blue Island.  
Einarson, Benedict, M.D., Englewood, Chicago.  
Ellis, James P., M.D., Augusta.  
Gilbert, John D., M.D., Fond du Lac, Wis.  
Henkel, F. W. E., M.D., 538 Ashland Ave., Chicago.  
Heylman, Charles J., M.D., 289 Webster Ave., Chicago.  
Hipke, Gustav A., M.D., Casco, Wis.  
Hooper, William F., M.D., Magazine, Ark.  
\*Hopkins, A. G.  
Houston, R. R.  
Howard, James J., M.D., Columbus, Wis.  
Huennekens, Joseph H., M.D., Milwaukee, Wis.  
Jackson, V. R., M.D., 291 31st St., Chicago.  
Jenny, F. L. B., M.D., 103 State St., Chicago.  
King, L. R., M.D., Junction City, Kan.  
Klemme, J. J., M.D., Strawn.  
Leitre, William S., M.D., Claypool, Ind.  
Lentes, Nicholas E., M.D., 945 Lincoln Ave., Chicago.  
Long, Charles W., M.D., Arlington Park Sanitarium, Denver, Colo.  
McFarlane, W. A., M.D., 967 W. Taylor St., Chicago.  
Mack, J. C., M.D., Cedar Rapids, Ia.  
McKlveen, H. B., M.D., Cain, Ia.  
McGuire, John, M.D., Kings Park, N. Y.  
McWilliams, C., M.D., Lowden, Ia.  
Mai, Herman, M.D., 208 E. North Ave., Chicago.  
Manny, J. H., M.D., 317 Belden Ave., Chicago.  
Meyerowitz, M., M.D., 179 W. 12th St., Chicago.

Mills, E. M., M.D., Payson.  
 Morse, A. J., M.D., Fond du Lac, Wis.  
 Muffat, M., M.D., Palatine.  
 Nieukirk, J. W., M.D., Mountain Home, Idaho.  
 Porter, M. C., M.D., Clay Center, Kas.  
 Prohaska, O. F., M.D., 1199 Broadway, Cleveland, O.  
 Purdy, A. H., M.D., 500 Reed St., Milwaukee, Wis.  
 Roach, T. F., M.D., Renova, Pa.  
 Shellito, E., M.D., Marcellus, Mich.  
 Sherry, H., M.D., Pasadena, Cal.  
 Sterrett, R. M., M.D., New York City.  
 Tictin, A. J., M.D., Maynard, Minn.  
 Tower, F. J., M.D., 110 Mason St., Milwaukee, Wis.  
 Valby, J. P., M.D., Viborg, S. D.  
 Wahl, E. W., M.D., Tampico.  
 White, A. G., M.D., Milwaukee Hospital, Milwaukee, Wis.  
 Whitehead, R. M., M.D., 361 Lexington Ave., New York.  
 Whitman, C. H., M.D., San Francisco, Cal.

#### CLASS OF 1891

\*Baer, J. F.  
 Barber, Martin C., M.D., Shullsburg, Wis.  
 Behrendt, A. J., M.D., 93 Fowler St., Chicago.  
 Brengle, D. D., Jr., M.D., Winchester.  
 Brown, Charles F., M.D., 360 Ogden Ave., Chicago.  
 Brown, R. H., M.D., 1211 W. Van Buren St., Chicago.  
 Bushby, Alonzo L., M.D., Primghar, Ia.  
 Clausen, James J., M.D., Rialto Bldg., Room 501, Kansas City, Mo.  
 Colegrove, Andrew, M.D., Taylorville.  
 Craig, Silvius S., M.D., East Troy, Wis.  
 Earle, Edward G., M.D., 270 E. North Ave., Chicago.  
 Fowler, George W., M.D., Marengo.  
 Fraser, Jefferson E., M.D., Garner, Ia.  
 Gafney, Thomas H., M.D., 427 S. State St., Chicago.  
 Genung, Frank C., M.D., Wausau, Neb.  
 Grimme, Ludwig A., M.D., 156 E. Belmont Ave., Chicago.  
 Harris, J. L., M.D., Webster, S. Dak.  
 Hessell, Adam A., M.D., Put-in-Bay, O.  
 Hipke, William, M.D., Hustisford, Wis.  
 James, Robert L., M.D., Blue Island.  
 Kensington, M. L., M.D., 456 63rd St., Chicago.

King, George E., M.D., Mattawan, Mich.  
Lawther, F. H., M.D., 3156 Armour Ave., Chicago.  
Leedle, G. T., M.D., 126 35th St., Chicago.  
Maxey, E. E., M.D., Boise City, Idaho.  
Medill, W. W., M.D., 1937 Stout St., Denver, Colo.  
O'Brien, William T., M.D., 722 E. 2d St., Ashland, Wis.  
Phillips, F. A., M.D., 100 State St., Chicago.  
Poposky, Joseph, M.D., 16 Turner St., Grand Rapids, Mich.  
Ricker, S. J., M.D., 127 LaSalle St., Aurora.  
von Schallern, Ottmar, M.D., Ripon, Wis.  
Schlawig, J. J., Jr., M.D., 5151 Fourth St., Sioux City, Ia.  
Sempill, R. A., M.D., 119 E. Madison St., Chicago.  
Sullivan, James, M.D., 6250 Lexington Ave., Chicago.  
\*Tanquary, Walter M.  
Thorn, F. A., M.D., Seattle, Wash.  
Train, J. A., M.D., 683 Noble St., Chicago.  
Walker, G. B., M.D., 38 Walnut St., Chicago.  
Wallace, H. R., M.D., 116 43d St., Chicago.  
Warren, B. H., M.D., Mattawan, Mich.  
Willard, L. M., M.D., Wausau, Wis.

**CLASS OF 1892**

Abelivoitz, J. Morris, M.D., 395 S. Halsted St., Chicago.  
Alcorn, David N., M.D., Stevens Point, Wis.  
Altenloh, Henry, M.D., 922 W. North Ave., Chicago.  
Brianza, Arthur M., M.D., 34 Washington St., Chicago.  
Brown, Robert W., M.D., Greenville, Mass.  
Burton, Robert H., M.D., Belvidere.  
\*Chaffee, C. C.  
Chapman, Chauncy F., M.D., 252 Warren Ave., Chicago.  
Cole, James H., M.D., Council Bluffs, Ia.  
Cushing, Martin D., M.D., Joliet.  
Dean, Fred Mark, M.D., Jefferson, Ia.  
Doty, Arthur J., M.D., Colman, S. Dak.  
Edmunds, Gerold O., M.D., Honor, Mich.  
Goss, Edwin L., M.D., Sheffield, Ia.  
Grubb, Albert G., M.D., Mongo, Ind.  
Harris, William Elbert, M.D., Hazel Dell.  
Hawley, Edgar Reed, M.D., 134 Monroe St., Chicago.  
Hazen, S. S., M.D., Hartstown, Pa.

Hilliker, J. B., M.D., Grand Rapids, Mich.  
 Holzman, J., M.D., Boston, Mass.  
 Hopkins, C. N., M.D., Los Angeles, Cal.  
 Klimmek, Otto, M.D., Reliance Bldg., Chicago.  
 Kroening, A. E., M.D., 557 Garfield Bvd., Chicago.  
 Luce, F. A., M.D., Clyde.  
 Nordlund, J. E., M.D., Denver, Colo.  
 Post, C. M., M.D., Alfred Center, N. Y.  
 Provan, D. M., M.D., 709 Milwaukee Ave., Chicago.  
 Richardson, W. B., M.D., Elliott.  
 Ritter, M. M., M.D., 100 State St., Chicago.  
 \*Roche, J. J.  
 Seim, G. S., M.D., Bloomington.  
 Sladek, B., M.D., 1335 W. 22nd St., Chicago.  
 Slamberg, N. A. L. K., M.D., Kimballton, Wis.  
 Smythe, F. R., M.D., Bismarck, N. Dak.  
 Stanger, G. H., M.D., Boone, Ia.  
 Stoddard, C. H., M.D., Milwaukee, Wis.  
 Stolnitzski, S., M.D., 564 S. Halsted St., Chicago.  
 Throckmorton, F. R., M.D., Derby, Ia.  
 Unger, A. M., M.D., 277 W. Van Buren St., Chicago.  
 Whitmer, L. W., M.D., 1508 Aldine Ave., Chicago.  
 Wood, F. C., M.D., Hancock, Wis.  
 Woodruff, H. W., M.D., Joliet.

#### CLASS OF 1893

Abt, Joseph L., M.D., 733 S. Halsted St., Chicago.  
 Absher, Allen Albert, M.D., Sibley.  
 Adams, J. F., M.D., Mt. Pleasant, Mich.  
 Allen, Manning L., M.D., Tama, Ia.  
 Archibald, Frank M., M.D., Atwater, Minn.  
 Arnold, D. Elmer, M.D., Heckla, S. Dak.  
 Beam, William O., M.D., Moline.  
 Boddiger, Charles Edwin, M.D., Archer Ave., Corner Main St.,  
 Chicago.  
 Boyd, S. J., M.D., 103 State St., Chicago.  
 Bogle, H. H., M.D., Pittsburg, Kas.  
 Brink, Chester A., M.D., Ord, Neb.  
 \*Brooks, Francis R., M.D.  
 Chamberlain, George E., M.D., Waterville, Minn.  
 Clark, Henry H., M.D., Watertown, S. Dak.



- Connell, Samuel W., M.D., Menominee Falls, Wis.  
Cook, R. H., M.D., Grayville.  
Dustin, Herbert D. C., M.D., Eastport, Mich.  
Ehrmann, Fred J. E., M.D., Hoyne Ave. and 22nd St., Chicago.  
Faith, Thomas, M. D., 103 State St., Chicago.  
Fee, Willis, M.D., Mead, Kas.  
Fenstermacher, Charles C., M.D., Jones, Mich.  
Fetherston, Edward B., M.D., Ravenswood, Chicago.  
Fermstead, Olaf, M.D., Minneapolis, Minn.  
Fulton, Arthur M., M.D., Fairfield, Ia.  
Fyfe, Richard, M.D., 743 W. Adams St., Chicago.  
Galloway, David Henry, M.D., 206 Oakwood Blvd., Chicago.  
Goldthorpe, Elmer E., M.D., Englewood, Chicago.  
Haiselden, H. J., M.D., 475 Belden Ave., Chicago.  
Hahn, Albert F., M.D., Eau Claire, Wis.  
Hardie, C. J., M.D., El Paso, Tex.  
Harvey, A. M., M.D., 578 W. Madison St., Chicago.  
Hauenstein, G. W., M.D., Elkhart, Ind.  
Hegge, C. A., M.D., Austin, Minn.  
Hegge, O. H., M.D., Austin, Minn.  
Henssler, O. W., M.D., 733 S. Halsted St., Chicago.  
Herrold, R. H., M.D., East Chicago, Ind.  
Hibbert, G. A., M.D., 2901 Wallace St., Chicago.  
Holliday, E. R., M.D., Clear Lake, Wis.  
Jacobus, Leon A., M.D., Winfield, Kas.  
Kelley, William R., M.D., Watonga, Okla.  
Kellogg, Charles Elmer, M.D., Northboro, Ia.  
Kerr, I. J., M.D., Wilson and Huff Aves., Cleveland, O.  
Kilbride, J. S., M.D., Canby, Minn.  
\*Latto, W. W., M.D.  
Livingston, W. R., M.D., Maywood.  
Lumley, W. A., M.D., Renville, Minn.  
McDonnald, J. S., M.D.  
McNulty, J. F., M.D., Callaway, Neb.  
Madison, P. C., M.D., 387 S. Leavitt St., Chicago.  
Manley, S. H., M.D., Stockton, Cal.  
Mansifee, W. H., M.D., 2301 Chestnut St., St. Louis, Mo.  
Martin, J. H., M.D., Scales Mound.  
Miller, W. H. H., M.D., Chadwick.  
Miles, F. W., M.D., Ottumwa, Ia.  
Monosmith, O. B., M.D., Lorain, O.

Moore, A. W., M.D., Bristol.  
 Newcomer, J. S., M.D., Geddes, S. Dak.  
 O'Malley, William H., M.D., Kinsman.  
 Osincup, F. A., M.D., Waverly, Ia.  
 \*Otto, Emil, M.D.  
 Packard, C. D., M.D., Rhinelander, Wis.  
 Patterson, J. W., M.D., Oconee.  
 Pierron, J. J., M.D., 5th Ave. and Harrison St., Chicago.  
 Post, C. C., M.D., Barron, Wis.  
 Prescott, H. V., M.D., Dallas City.  
 Renn, T. H., M.D., 649 W. 21st St., Chicago.  
 Roff, O. W., M.D., Newton, Kas.  
 Roos, David William, M.D., South Frankfort, Mich.  
 Rowe, E. J., M.D., Forest, Miss.  
 Salter, Allen, M.D., Lena.  
 Seufert, E. G., M.D., 827 Milwaukee Ave., Chicago.  
 Smith, E. L., M.D., 451 E. 42nd St., Chicago.  
 Spach, A. B., M.D., 6629 Harvard Ave., Chicago.  
 Stevens, M. E., M.D., Texarkana, Ark.  
 Stewart, J. L., M.D., Irene, S. Dak.  
 Stewart, W. T., M.D., 1621 W. 12th St., Chicago.  
 Stixrud, T. M., M.D., Ft. Ransom, N. Dak.  
 Stoltz, C., M.D., South Bend, Ind.  
 Taylor, O. G., M.D., Palestine.  
 Tucker, W. L., M.D., Hinsdale, Mass.  
 Upton, F. F., M.D., 27 Bickerdike St., Chicago.  
 Van Duyn, A. H., M.D., Netawaka, Kas.  
 Warriner, W. W., M.D., Richmond, Mo.  
 Waxham, C., M.D., North Liberty, Ind.  
 Williams, J. J., M.D., Weatherford, Okla.  
 Williams, S. E., M.D., New Bedford, Ill.

#### CLASS OF 1894

Andrews, Benjamin F., M.D., Oskaloosa, Ia.  
 Anker, I. Charles, M.D., 5008 Calumet Ave., Chicago.  
 Atkins, Milton H., M.D., San Francisco, Cal.  
 Berard, H. W., M.D., 1107 W. Chicago Ave., Chicago.  
 Bluhm, G. J., M.D., 352 W. 14th St., Chicago.  
 Borst, Henry, M.D., Oelwein, Ia.  
 Bradley, Edgar J., M.D., Elkhorn, Mont.  
 Brown, W. S., M.D., Elgin.

- Buckley, Thomas J., M.D., Fayette, Wis.  
Burke, William P., M.D., Iowa Falls, Ia.  
Cole, John H., M.D., Council Bluffs, Ia.  
Crowley, Peter F., M.D., Jefferson Park, Chicago.  
Cunningham, Milton V., M.D., Youngstown, O.  
Darcy, Frank D., M.D., S. Chicago.  
Davidow, Aaron D., M.D., Troy, N. Y.  
Day, Edwin S., M.D., Earlham, Ia.  
DeKraker, James M., M.D., Grand Rapids, Mich.  
Dilworth, William D., M.D., Huenene, Cal.  
Doederlein, Theodore J., M.D., 356 Webster Ave., Chicago.  
Doepp, Fred F., M.D., Homewood.  
Donaldson, Oliver H., M.D., Terre Haute, Ind.  
Evans, Daniel W., M.D., Scranton, Pa.  
Evenson, H. C., M.D., 728 N. Leavitt St., Chicago.  
\*Foster, Albert A., M.D.  
Gregory, Arthur T., M.D., Elroy, Wis.  
Hart, Thomas B., M.D., Raton, New Mexico.  
Hartung, Henry, M.D., 596 Sheffield Ave., Chicago.  
Herriges, Phillip, M.D., Cleveland, Wis.  
Holmes, J. B., M.D., Macomb.  
Hornbogen, Harry J., M.D., Marquette, Mich.  
Ide, Oscar M., M.D., 1684 North Ave., Chicago.  
Isaacs, Lewis Joel, M.D., 2061 38th St., Chicago.  
Jamison, Homer, M.D., Milburn.  
Josephson, Victor, M.D., 322 W. 12th St., Chicago.  
Karnopp, Gottfried L., M.D., Mischicott, Wis.  
Kerr, Edgar D., M.D., Oconee.  
Kerrigan, J. J., M.D., Michigan City, Ind.  
Kuflewski, Wladslau A., M.D., 724 W. 18th St., Chicago.  
Lanstrum, O. M., M.D., Marysville, Mont.  
\*Larson, H.  
LaSpada, Francisco, M.D., San José, Cal.  
Lauson, Albert E., Brady and Marshall Sts., Milwaukee, Wis.  
Leeson, E., M.D., Roselawn, Ind.  
Leviton, A. H., M.D., 577 S. Halsted St., Chicago.  
Levy, J., Jr., M.D., Nashville, Tenn.  
Lorenz, M. E., M.D., 585 S. Center Ave., Chicago.  
Lowry, G. E., M.D., Elizabeth, N. J.  
Lyon, Samuel B., M.D., 653 N. Irving Ave., Chicago.  
Lyons, J. A., M.D., Welcome, Wis.

- Manning, G. N., M.D., Garden Prairie.  
 Mannon, J. A., M.D., Sherrard.  
 Mesirov, E. B., M.D., 1020 Milwaukee Ave., Chicago.  
 Mullen, M. C., M.D., 5900 Wentworth Ave., Chicago.  
 Naughton, M. T., M.D., 835 Garfield Bvd., Chicago.  
 Nelson, N. C. G., M.D.  
 Oakshette, James C., M.D., Jackson, Mich.  
 O'Bryne, C. C., M.D., 747 Monroe St., Chicago.  
 Osmess, A. M., M.D., Columbus, O.  
 Payne, R. E., M.D., 731 Sutter St., San Francisco, Cal.  
 Pickel, E. B., M.D., Medford, Ore.  
 Planck, E. A., M.D., Union, Mich.  
 Pollack, H. L., M.D., 622 Lincoln Ave., Chicago.  
 Quinn, William A., M.D., 7 Blue Island Ave., Chicago.  
 Reis, W. V., M.D., Jonköping, Sweden.  
 Rhiel, A. C., M.D., Lowell.  
 Rhode, Henry P., M.D., Forest Junction, Wis.  
 Richmond, F. C., M.D., Arcadia, Wis.  
 Richter, H. M., M.D., 6659 Cottage Grove Ave., Chicago.  
 Roberts, W. P., M.D., Hunt City.  
 Round, T. L., M.D., Tampico.  
 Shabad, A. M., M.D., 214 Blue Island Ave., Chicago.  
 Shields, A. W., M.D., Eaton, Colo.  
 Slater, P. A., M.D., Hindsboro.  
 Smith, H. W., M.D., Roodhouse.  
 Sornberger, S. J., M.D., Cortland, N. Y.  
 Steffins, J. W., M.D., Cheboygan, Mich.  
 Stevens, H. L., M.D., Floris, Ia.  
 Stevens, S., M.D., Dowagiac, Mich.  
 Stevens, W. D., M.D., Paw Paw.  
 Sutcliffe, H. W., M.D., Wheaton.  
 Townsend, J. W., M.D., Malcolm, Ia.  
 Turner, F. A., M.D., Sandwich.  
 Uckermann, A. W., M.D., 284 W. Indiana St., Chicago.  
 Vaupell, W. R., M.D., 1554 Jackson Bvd., Chicago.  
 Watrous, H. L., M.D., Lindsey, Wis.  
 Webster, C. L., M.D., 140 Ashland Bvd., Chicago.  
 Weisenberg, B., M.D., 312 Chestnut St., Milwaukee, Wis.  
 Wesener, J. A., M.D., 103 State St., Chicago.  
 Whiteside, C. E., M.D., Moline.  
 Windell, U. G., M.D., 309 Park Ave., Chicago.

Wohlenberg, A. F., M.D., Stuart, Idaho.  
 Woodard, W. P., M.D., Cherry Valley.  
 Woodcock, G. A., M.D., Armstrong, Ia.

**CLASS OF 1895**

Ainsworth, H. H., M.D., 804 Warren Ave., Chicago.  
 Beck, Joseph C., M.D., 100 State St., Chicago.  
 Belitz, Alfred, M.D., Waumandee, Wis.  
 Bowell, B. C., M.D., LaPorte, Ind.  
 Bradford, A. W., M.D., Sparland.  
 Champlin, S. H., M.D., Madison St. and Western Ave., Chicago.  
 Clark, S. B., M.D., Buffalo, N. Dak.  
 Coates, W. E., M.D., 417 44th Ave., Chicago.  
 Cochrane, W. J., M.D., Lake City, Minn.  
 Carey, D. J., M.D., 568 W. 21st St., Chicago.  
 Davies, G. W., M.D., Waterloo, Wis.  
 Diller, Francis S., M.D., Roberts.  
 Dods, G. D. B., M.D., 1560 Jackson Bvd., Chicago.  
 Doty, Maurice F., M.D., 5 Blue Island Ave., Chicago.  
 Dulin, C. W., M.D., Kansas City, Mo.  
 Dysart, Louis, M.D., Chicago.  
 Feltenstein, B., M.D., 1898 Milwaukee Ave., Chicago.  
 Franken, John G., M.D., Chandlerville.  
 Gaebler, Arthur, M.D., 4801 S. Ashland Ave., Chicago.  
 Gillespie, J. A., M.D., Coin, Ia.  
 Grayston, F. W., M.D., Huntington, Ind.  
 Green, Thomas S., M.D., 39th and Cottage Grove Ave., Chicago.  
 Hamilton, Charles, M.D., Carlock.  
 Hamilton, Howard, M.D., Bethany.  
 Heckman, J. I., M.D., Hinkley.  
 Hellebrandt, F. J., M.D., 1111 S. Albany Ave., Chicago.  
 Henderson, G. S., M.D., Holcomb.  
 Higbee, F. O., M.D., Galien, Mich.  
 Hubbard, W. D., M.D., West Point, Miss.  
 \*Jones, William.  
 Johnson, G. W., M.D., 733 Grace St., Chicago.  
 Leach, W. D., M.D., S. English, Ia.  
 LeDuc, C. H., M.D., Breda, Ia.  
 Lemke, A. F., M.D., Reliance Bldg., Chicago.  
 Leonard, J. Henry, M.D., 100 State St., Chicago.  
 Lewis, J. V., M.D., Momence.

- Lowenthal, A. A., M.D., 5621 Prairie Ave., Chicago.  
 Lucas, G. U., M.D., Malta.  
 Luria, A., M.D., 815 Milwaukee Ave., Chicago.  
 McClain, Jesse, M.D., Coshocton, O.  
 McShane, B., M.D., Hales Corners, Wis.  
 Matthaei, E. A., M.D., 626 W. Chicago Ave., Chicago.  
 May, L. F., M.D., 191 E. Fullerton Ave., Chicago.  
 Mayhew, J. M., M.D., 100 State St., Chicago.  
 Meltzer, V. J., 177 W. 126th St., New York City.  
 Miller, A. E., M.D., Eckert, Colo.  
 Mueller, F. L., M.D., 2520 Lincoln Ave., Chicago.  
 Nagle, R. J., M.D., Dixon.  
 Nahinsky, H., M.D., 23 Irving Place, Chicago.  
 Pease, A. S., M.D., 5357 Jackson Ave., Chicago.  
 Peterson, O. T., M.D., Gibbon, Minn.  
 Phillips, D. C., M.D., Millerstown, Ky.  
 Rice, Earl, M.D., Roland, Ia.  
 Riggs, J. P., M.D., Plano.  
 Sachs, T. B., M.D., 478 Ashland Bvd., Chicago.  
 Scott, H. S., M.D., Junction City, Kas.  
 Seville, F. F., M.D., 1573 Monroe St., Chicago.  
 Shepstone, J. A., M.D., 4846 State St., Chicago.  
 Siemonowicz, W. J., M. D., 581 Milwaukee Ave., Chicago.  
 Slater, O. M., M.D., Isabel.  
 Slocumb, Jesse, M.D., Plainview, Minn.  
 Smith, C. B., M.D., Decatur.  
 Speice, W. K., M.D., Columbus, Neb.  
 Staller, Max, M.D., Philadelphia, Pa.  
 Steele, R. E., M.D., Beaver City, Utah.  
 Stockley, D. R., M.D., Evanston.  
 Swartz, Albert, M.D., 324 Blue Island Ave., Chicago.  
 Talbott, E. F., M.D., Flandreau, S. Dak.  
 Tillson, E. M., M.D., Two Rivers, Wis.  
 Tremblay, J. J., M.D., Moline.  
 Vaughan, George, M.D., Lansing, Minn.  
 Veit, J. L., M.D., 440 W. Harrison St., Chicago.  
 Wagner, H. E., M.D., 38 Moffit St., Chicago.  
 Weatherford, Frank A., M.D., 63rd and Ashland Ave., Chicago.  
 Weber, Lee, M.D., Davenport, Ia.  
 \*Webster, W. L.  
 Wilder, C. H., M.D., DeKalb.

Wilson, H. L., M.D., 818 W. North Ave., Chicago.  
 Wynekoop, F. E., M.D., 1563 Monroe St., Chicago.

## CLASS OF 1896

Austin, K. O., M.D., 148 Dearborn Ave., Chicago.  
 Beck, Emil G., M.D., 174 Eugene St., Chicago.  
 Bennett, Cleaves M., M.D., Mattoon.  
 Berg, O. H., M.D., 557 N. California Ave., Chicago.  
 Bonner, A., M.D., New York City.  
 Briggs, A. E., M.D., Roseville, Cal.  
 Burns, Frank W., M.D., Stewartsville, Minn.  
 Cheever, William Rockwell, M.D., Kenosha, Wis.  
 Culp, Frank E., M.D., Wenatchee, Wash.  
 DeFries, A., M.D., Davenport, Ia.  
 Dobson, Samuel J., M.D., Jefferson, Kas.  
 Doerr, August, M.D., Milwaukee, Wis.  
 Eaton, Roy R., M.D., Lowell, Mich.  
 Eddy, George S., M.D., Templeton, S. Dak.  
 Edmonson, George, M.D., Clinton.  
 Gill, George, M.D., North Ridgeville, O.  
 Glenn, Fred L., M.D., W. 48th St. and Indiana Ave., Chicago.  
 Grace, Ralph S., M.D., Battle Creek, Mich.  
 Hammond, C. L., M.D., Winthrop, Cal.  
 Hartigan, Timothy, M.D., 43rd St., Chicago.  
 Headrick, C. M., M.D., Tecumseh, Neb.  
 Hollister, T. C., M.D., St. Louis, Mo.  
 Hudson, J. R., M.D., Chicago.  
 Humiston, C. E., M.D., Austin.  
 Jegi, H. A., M.D., Galesville, Wis.  
 Jenkins, Park B., M.D., Wanbay, S. Dak.  
 Johnstone, N. A., M.D., Kansas City, Mo.  
 Laird, William J., M.D., Nahma, Mich.  
 Lawrence, G. H., M.D., Galesville, Wis.  
 Leland, Muret N., Jr., M.D., St. Elizabeth's Hospital, Minneapolis,  
 Minn.  
 Lid, Torsteni, M.D., Chicago.  
 Linaweaver, A. H., M.D., Findlay, O.  
 McGready, J. H., M.D., Independence, Ia.  
 McKenzie, W. W., M.D., N. Clark St., Lake View, Chicago.  
 Mason, J. Frank, M.D., Taylorville.  
 Mitchell, Grant, M.D., Madison and State Sts., Chicago.

Moses, J. M., M.D., 604 46th St., Chicago.  
 Mount, H. A., M.D., Elm Grove, Wis.  
 O'Malley, T. J., M.D., 34 Washington St., Chicago.  
 Pierce, Percival, M.D., Waukegan.  
 Schwab, L. W., M.D., 449 41st St., Chicago.  
 Seagley, I. B., M.D., Scotland, S. Dak.  
 \*Shinnick, J. H., M.D.  
 Springer, J. C., M.D., 181 W. Madison St., Chicago.  
 Starner, A. A., M.D., Galion, O.  
 Straus, I. J., M.D., 3640 Cottage Grove Ave., Chicago.  
 Sumpmann, H. A., M.D., New Vienna, Ia.  
 Sweetman, R. H., M.D., Hayton, Wis.  
 Swink, W. T., M.D., Mendon, Tenn.  
 Vosburg, W. E. H., M.D., Coopertown, Wis.  
 Waldron, J. H., M.D., 2170 W. 26th St., Chicago.  
 Widmeyer, J. P., M.D., Rolla, N. Dak.  
 Wilmer, F. M., M.D., Winfield, Kas.  
 Yates, Charles A., M.D., Merrill, Wis.  
 Zapffe, Frederick Carolus, M.D., 1764 Lexington St., Chicago.

#### CLASS OF 1897

Aby, F. S., M.D., Two Rivers, Wis.  
 Ade, Samuel G., Ph.G., M.D., 577 Fulton St., Chicago.  
 Ascher, John A., M.D., Lovelocks, Nev.  
 Arnold, Harry L., A.B., M.D., Omaha, Neb.  
 Auner, J. Frank, M.D., Waverly, Ia.  
 Banks, J. Harvey, M.D., Lincoln.  
 Barnett, Miles R., M.D., Oshkosh, Wis.  
 Bassoe, Peter, B.S., M.D., Cook Co. Hospital, Chicago.  
 Bein, Alfred, M.D., 1227 Milwaukee Ave., Chicago.  
 Bennett, Charles L., M.D., Tepezela, Mexico. (Aguas Calientes.)  
 Biegeleisen, Nathan, M.D., 610 W. Congress St., Chicago.  
 Brinckerhoff, John J., Ph.B., M.D., Minooka.  
 Broderick, Frank W., M.D., Lafayette, Ind.  
 Brown, Albert E., Ph.G., M.D., Waukegan.  
 Brown, Henry D., M.D., 114 Honore St., Detroit, Mich.  
 Brown, Mont M., A.B., M.D., Golden.  
 Burroughs, Arthur P., M.D., Galesburg, Mich.  
 Calbreath, Creed C., M.D., Confidence, Ia.  
 Carter, Charles W., M.L., M.D., Aledo.  
 Clancey, John H., M.D., Naperville, Ill.



- Cochran, Joseph S., Ph.G., M.D., 425 Clark St., Chicago.  
Connell, J. F., M.D., Alexian Bros. Hospital, Chicago.  
Cook, J. F. D., M.D., Langford, S. Dak.  
Coplan, Lemuel S., M.D., Colchester.  
Cullen, John, M.D., 171 Blue Island Ave., Chicago.  
Dickenson, Stanley B., M.D., Watertown, S. Dak.  
Dillon, Richard H., A.B., M.D., Manchester, N. H.  
Drew, Thomas B., M.D., Aurora.  
Duff, Guy C., M.D., 1426 Roscoe St., Chicago.  
Fanning, Frank D., M.D., Butler, Ind.  
Farquhar, Elwood M., M.D., Early, Ia.  
Finn, William H., M.D., 6313 Champlain Ave., Chicago.  
Frederick, Rivers C., M.D., Pointe Coupee, La.  
Frick, Louis, M.D., Hilburt, Wis.  
Fridus, Samuel L., M.D., 4804 S. Ashland Ave., Chicago.  
Gailey, Darwin S., M.D., Ashland.  
Hall, Henry M., Jr., M.D., Millersburg, Ind.  
Hamilton, E. Mandel, M.D., Cairo, W. Va.  
Hansel, Charles E., M.D., Lakeville, Ind.  
Hobbs, Edward J., M.D., Richland, Mich.  
Jackson, Taylor R., A.B., M.D., New Sharon, Ia.  
Jackson, Thomas J., A.M., M.D., 3901 Indiana Ave., Chicago.  
Johnson, N. LaDoit, M.D., 18 N. California Ave., Chicago.  
Kane, F. C., M.D., Logansport, Ind.  
Kinney, William D., M.D., Colfax, Ia.  
Klepinger, John C., M.D., Galva, Kas.  
Lerche, Wilhelm, Ph.G., M.D., 282 Grand Ave., Chicago.  
Lewis, Henry T., M.D., Black Earth, Wis.  
Lincoln, Walter S., A.B., M.D., Dodgeville, Wis.  
Loffer, Orla W., M.D., Maplewood, O.  
Mapes, Reynolds J., M.D., Colorado Springs, Colo.  
Mayhew, G. Earnest, A.B., M.D., Edgwood, Cal.  
Meek, Loring C., M.D., Silver Lake, Ind.  
Mizell, Adolph G., A.B., M.D., Sheblyville, Ill.  
Murphy, Charles C., M.D., Aukland, New Zealand.  
Nellis, James G., M.D., Irvington, Cal.  
Novak, John D., M.D., 1581 W. 23rd St., Chicago.  
Peacock, Norman F., M.D., Darlington, Ind.  
Pence, Clyde D., M.D., 34 Washington St., Chicago.  
Perisho, E. E., Ph.G., M.D., Ancona.  
Peterson, William A. C., B.S., M.D., 100 State St., Chicago.

Prough, William C., M.D., Goodland, Ind.  
 Rice, Daniel S., M.D., Stevens Point, Wis.  
 Rice, R. H., M.D., Kewaunee, Wis.  
 Royce, William S., Ph.G., M.D., 1194 N. California Ave., Chicago.  
 Sayre, Charles E., M.D., D.V.S., 1246 Michigan Ave., Chicago.  
 Schindler, F. S., M.D., 262 S. Halsted St., Chicago.  
 Sedlacek, Frederick A., M.D., Tyndall, S. Dak.  
 Sizer, Edmund A., M.D., Fairhaven, Wash.  
 Smith, Rodney D., A.B., M.D., Ft. Stevens, Ore.  
 Stewart, Harry J., M.D., D.V.S., 2118 W. Lake St., Chicago.  
 Switzer, George O., M.D., 482 Milwaukee Ave., Chicago.  
 Taylor, Ralph C., Ph.G., M.D., Lily Lake.  
 Thordarson, Theodore, A.B., M.D., Minneota, Minn.  
 Treadwell, Clarence L., M.D., Kilbourn City, Wis.  
 \*Virtue, C. W., A.B., M.D.  
 Wahle, Henry, M.D., Marshfield, Wis.  
 Walsh, Edmund A., M.D., Springfield.  
 Wells, William H., M.D., Paris.  
 Wever, John S., M.D., Leavenworth, Kas.  
 Whiffen, Roscoe A., M.D., Briggsville, Wis.  
 Williams, Walter, M.D., 689 W. Monroe St., Chicago.  
 Wray, William E., M.D., Denmark, Wis.  
 Yoist, Henry J., M.D., 508 State St., Chicago.

#### CLASS OF 1898

Bacon, Victor B., M.D., Michigan City, Ind.  
 Baker, Henry L., M.D., 330 S. Kedzie Ave., Chicago.  
 Bebb, Walter S., M.D., LaGrange.  
 Belitz, William, M.D., Cochrane, Wis.  
 Beveridge, James M., A.B., M.D., Buckingham.  
 Bjorkmann, David, A.B., M.D., Evanston.  
 Bingley, M. Arista, M.D., 225 W. Chicago Ave., Chicago.  
 Blayney, Fred H., A.B., M.D., Chicago.  
 Brown, D. E., M.D., Laramie, Wyo.  
 Brownell, Wm. Flocton, M.D., New London, Wis.  
 Bursma, Jacob, A.B., M.D., Grand Rapids, Mich.  
 Butts, J. Baptist, M.D., 324 Ogden Ave., Chicago.  
 Beyers, Emery M., M.D., Lake Geneva, Wis.  
 Cahill, Leo L., M.D., Elizabethtown, N. M.  
 Carr, Bert Mather, M.D., Cedar Springs, Mich.  
 Conard, A. F., M.D., Homer.

- Connor, F. H., B.S., M.D., Nevada, Ia.  
Coon, Geo. E., M.D., Milton Junction, Wis.  
Corbin, John Francis, M.D., Galesburg.  
Crofton, Alfred C., M.D., Philadelphia, Pa.  
Dillon, Ira Hugh, M.D., Auburn, Neb.  
Dolan, A. N. J., A.B., M.D., 905 Wilson Ave., Chicago.  
Dowdall, Wm. T., M.D., Casner.  
Emerson, Robert, M.D., Chihuahua, Mex.  
Feeney, Francis Sebastian, M.D., New Hampton, Ia.  
Flannagan, Bartholomew F., M.D., Richmond, Ind.  
Flemming, Geoffrey J., M.D., 426 S. Waller Ave., Chicago.  
Fletcher, Marcus Samuel, B.S., M.D., Ridge Farm.  
Ford, Ward Redfield, M.D.  
Fuson, Amandus W., M.D., Stockton, Cal.  
Garber, S. C., M.D., Camden, Ark.  
Graeser, Henry Bernard, M.D., Kensett, Ia.  
Hall, Hugh Martin, M.D., Millersburg, Ind.  
Hambly, Thomas J., M.D., Hurley, Wis.  
Hamill, Mrs. Eunice B., M.D., Guthrie, Okla.  
Hart, W. E., M.D., Chihuahua, Mex.  
Hill, Geo. B. McClelland, M.D., Chicago.  
Homer, Herman Corwin, M.D., Oskaloosa, Ia.  
Hooper, Martin L., M.D., Milo, Ia.  
Hovenden, John Henry, M.D., Laurens, Ia.  
Hunt, Ernest A., B.S., M.D., Melbourne, Ia.  
Husk, C. E., M.D., Santa Barbara, N. M.  
Hutchinson, Charles S., M.S., M.D., Des Moines, Ia.  
Irwin, Wentworth Lee, M.D., Plymouth, Ind.  
Johnson, Simeon R., B.S., M.D., Divernon.  
Kalacinski, Felix, M.D., 638 Noble St., Chicago.  
Kemp, Oliver P., B.S., M.D., Greentown, Ind.  
King, Charles Bruce, M.D., 987 Jackson Blvd., Chicago.  
Kirkland, Benjamin Franklin, M.D., Urbana.  
Kittredge, Charles Albert, M.D.  
Knight, Eugene C., M.D., Evanston.  
Kohler, Arvid C., M.D., Moline.  
Lucas, Frank B., M.D., Peoria.  
Lyon, Elijah A., M.D., 200 22d St., Chicago.  
McManes, Matthew, M.D., Cincinnati, O.  
McManus, Thomas, A.B., M.D., Waterloo, Ia.  
Miller, A. Baxter, M.D., 216 E. Ohio St., Chicago.

- Minahan, Patrick Robert, M.D., Casco, Wis.  
Mutchler, John A., B.S., M.D., Swea City, Ia.  
Nagel, John S., Ph.G., M.D., S. Western Ave., Chicago.  
Neff, Jas. M., M.D., 100 State St., Chicago.  
Newhall, George F., M.D., 811 W. Irving Park Blvd., Chicago.  
Overton, T. V., M.D., Baldwin, La.  
Page, Addison C., M.D., Des Moines, Ia.  
Pagelson, Otto H., M.D., Iowa Falls, Ia.  
Pennington, William Robert, M.D., Broken Bow, Neb.  
Petersmeyer, William, Ph.G., M.D., Ashton.  
Phillips, Mrs. Jennie Lind, M.D., 60th and Butler Sts., Chicago.  
Pietrowicz, S. R., M.D., 828 Milwaukee Ave., Chicago.  
Pratz, Fred D., A.B., M.D., Moweaqua.  
Proudfoot, Charles Pans, M.D., Liberty, Neb.  
Purington, William Abraham, M.D., Sangerville, Me.  
Rogers, Henry Cortland, M.D., Monticello, Ia.  
Roszell, R. A., M.D., 700 W. 120th St., Chicago.  
Rubin, George, M.D., 92 State St., Chicago.  
Scheussler, Henry G., M.D., Joliet.  
Scholes, Paul, A.B., M.D., Canton.  
Schuldt, Franz, M.D.  
Sherin, Wesley Morley, M.D., 45 Stanley Terrace, Chicago.  
Simpson, Austin Ulysses, M.D., Neoga.  
Simpson, Charles E., M.D., Norway, Ia.  
Simpson, D. G., M.D., Warren, O.  
Slater, J. H., M.D., Spanish Fork, Utah.  
Snydacker, Emanuel F., M.D., 103 State St., Chicago.  
Sollenberger, Geo. Hartley, M.D., Bethlehem, Ia.  
Spickerman, H. R., M.D., Muncie, Ind.  
Stayner, W. H., M.D., Oakland, Cal.  
Steele, W. J., B.S., M.D., Brooklyn, N. Y.  
Stevenson, Bayard Taylor, M.D., Harvey.  
Stone, Carl Downer, M.D., 2020 Calumet Ave., Chicago.  
Stone Wm. Truman, M.D., Park Rapids, Minn.  
Stotz, Charles F., M.D., 1570 Milwaukee Ave., Chicago.  
Swink, Henry J., M.A., M.D., Medon, Tenn.  
Vary, William Harold, M.D., 32 Wells St., Chicago.  
Wald, O. E., M.D., Lincoln and Garfield Aves., Chicago.  
Wegner, William Godfrey, M.D., South Bend, Ind.  
Wehle, Willibald John, Ph.E., M.D., West Bend, Wis.  
Wells, David Gillison, M.D., McHenry.

Whitmer, Charles Franklin, M.D., East St. Louis.  
 Whitmore, Frank B., M.D., West Union, Ia.  
 Whitney, Eugene D., M.D., Painesville, O.  
 Witherspoon, Louis G., B.S., M.D., 1002 Madison St., Chicago.  
 Wolf, M. C., M.D., 144 S. Albany Ave., Chicago.  
 Wuerth, John Jacob, Ph.G., M.D., 35th and Rhodes Ave., Chicago.  
 Wyland, George Van, M.D., 329 W. Erie St., Chicago.  
 Wynekoop, Chas. I., B.S., M.D., 1503 Addison Ave., Chicago.

#### CLASS OF 1899

Albrecht, Charles A., M.D., 784 S. Halsted St., Chicago.  
 Andrews, Hubert Franklin, B.S., M.D., Gunnison, Utah.  
 Backus, Jesse William, M.D., Long Island, N. Y.  
 Barker, Ernest Stanley, M.A., M.D., 279 LaSalle Ave., Chicago.  
 Barnes, Frederick Louis, M.D., Bussey.  
 Bay, Hiram Horace, M.D., Marshalltown, Ia.  
 Bechtold, August Frederick, M.D., New Baden.  
 Beedy, Laura, M.D., 1246 Sheridan Rd., Chicago.  
 Best, Elmer Ellsworth, M.D., Park Ridge.  
 Betz, Jonathan Clymont, M.D., Boscobel, Wis.  
 Brown, James Moreau, M.D., Venetian Bldg., Chicago.  
 Browning, George Stillman, B.S., M.D., Alma, Mich.  
 Burke, Thomas Jerome, M.D., Dewitt, Ia.  
 Bush, John H., B.S., Ph.G., M.D., Philadelphia, Pa.  
 Butler, Clarence Albert, M.D., Dill Rapids, N. Dak.  
 Campbell, Wm. Bernard, M.D., Menominee Falls, Wis.  
 Carroll, Henry Colistus, M.D., 4048 Indiana Ave., Chicago.  
 Chambers, Wm. Henry, B.E., M.D., Hill City, S. Dak.  
 Chloupek, Elton Arthur, M.D., Manitowoc, Wis.  
 Coen, Charles Morgan, M.D., Bellflower.  
 Crosby, Leonard Green, M.D., Milton, Wis.  
 Czarra, Conrad Howard, M.D., 557 Jackson Blvd., Chicago.  
 Dugan, Jas. Henry, A.B., M.D., Westminster, Md.  
 Edwards, John Milton, M.D., Mankato, Minn.  
 Evans, Wm. Augustus, M.D., (*Ad eundem*), 103 State St., Chicago.  
 Fantus, Bernard, M.D., 443 Marshfield Ave., Chicago.  
 Feingold, Leon, M.D., St. Elizabeth Hospital, Chicago.  
 Fellows, Mrs. Marie Alice, M.D., 2723 State St., Chicago.  
 Fisher, George Carl, M.D., 2136 Indiana Ave., Chicago.  
 Frank, Ira, M.D., 17 Lincoln Ave., Chicago.  
 Freas, Frank Freas, M.D., 1524 Wrightwood Ave., Chicago.

- Garth, Jas. Wm., M.D., Clarion, Ia.  
 Gathmann, Henry, M.D., Milwaukee, Wis.  
 Goggin, Robert J., M.D., Petoskey, Mich.  
 Grabowicz, Bronislaus Casimir, M.D., 576 Milwaukee Ave., Chicago.  
 Grimes, John Patrick, M.D., 395 Wells St., Chicago.  
 Hammond, Jas. Lloyd, M.D., Masonic Temple, Chicago.  
 Harris, Frederick G., M.D., 279 Warren Ave., Chicago.  
 Heald, Harvey Clay, B.S., M.D., Millard, Neb.  
 Herzog, Albert Edmund, M.D., Ottawa.  
 Hillard, Thomas R., M.D., Widnoon, Pa.  
 Hillebrand, Henry Justus, M.D., 1059 Fullerton Ave., Chicago.  
 Hisom, Mrs. Helen Taylor, M.D., Los Angeles, Cal.  
 Hukill, Hannah Luella, M.D., 103 State St., Chicago.  
 Hummel, Charles C., Ph.G., M.D., Grundy Center, Ia.  
 Hunter, Mary Gill, M.D., Grand Junction, Colo.  
 Jacobson, August, Ph.G., M.D., 477 Ogden Ave., Chicago.  
 Janss, Herman, M.D., 3910 Calumet Ave., Chicago.  
 Kay, Abbott Elliott, M.D., 953 W. Lake St., Chicago.  
 Kelly, Luke H., M.D., Hammond, Ind.  
 Kelsey, Russell Calvin, M.D., White Rock, S. Dak.  
 Klein, Matthias Joseph, M.D., 1002 Wellington Ave., Chicago.  
 Klokke, Wm. Emil, 1935 Park Ave., Chicago.  
 Knudson, Frank B., M.D., 389 W. Erie St., Chicago.  
 Koenemann, Eugene Oscar, M.D., Eldora, Ia.  
 Kreuger, Albert G., M.D., Caldwell, Tex.  
 Laftry, Thomas D., M.D., 1427 W. Madison St., Chicago.  
 Lemke, Albert Robert, M.D., 100 State St., Chicago.  
 Lerch, Wm. Henry, M.D., Soldiers Grove, Wis.  
 Long, Ross David, M.D., 100 State St., Chicago.  
 Long, William Ernest, M.D., Rockford, Ia.  
 Lucas, David Ellsworth, M.D., 1270 W. Madison St., Chicago.  
 McCarthy, Robert Groves, M.D., 737 W. Madison St., Chicago.  
 McClung, Alberta Virginia, M.D., 6108 Greenwood Ave., Chicago.  
 McCormick, Charles Alfred, M.D., 1220 Adams St., Chicago.  
 McWilliams, Oscar Eugene, M.D., Anderson, Ind.  
 Macy, Otto E., M.D., Pleasanton, Ia.  
 Madjeska, Ernest Henry, Ph.G., M.D., Bessemer, Mich.  
 Markey, Francis Frederick, M.D., 264 18th St., Milwaukee, Wis.  
 Metcalf, John Eugene, M.D., Finnimore, Wis.

- Meyers, Frank William, M.D., Dubuque, Ia.  
Moore, Frank Donaldson, M.D., 411 S. Oakley Ave., Chicago.  
\*Myers, Frederick Wiltfong.  
Olsen, Wilhelm Carolius, M.D., 2139 Wabash Ave., Chicago.  
Peters, James Alphonse, M.D., Oxford, Ia.  
Platt, Benjamin Merchant, M.D., 80 Institute Place, Chicago.  
Pleth, Valdemar, M.D., 1556 Milwaukee Ave., Chicago.  
Potter, Jesse Youngs, M.D., New London, Wis.  
Ramsey, Frank Paine, Ph.G., M.D., Rapid City, Mich.  
Raw, Elmer Joseph, M.D., Marcus, Ia.  
Reasoner, Matthew Aaron, B.S., M.D., Morrisonville.  
Reich, Wm. Frederick, M.D., Milwaukee, Wis.  
Rich, Riley Gilbert, D.V.S., M.D., David City, Neb.  
Richards, Frederick Augustus, M.D., Whitewood, S. Dak.  
Russell, Herman Richard, M.D., Stewartville, Minn.  
Sanderson, Philip G., M.D., Detroit, Mich.  
Scheib, Geo. Francis, M.D., Fond du Lac, Wis.  
Schmitt, Gustav, M.D., Milwaukee, Wis.  
Schoenberg, Albert John, M.D., 100 State St., Chicago.  
Sisson, Charles E., M.D., Elgin.  
Slightam, Clarence Howard, M.D., Madison, Wis.  
Smith, Thurston, A.M., M.D., Bloomington, Ind.  
Steele, Frank B., M.D., Chicago Hospital, Chicago.  
Stillians, Arthur W., M.D., Cook County Hospital, Chicago.  
Strohecker, Samuel Martin, M.D., 10192 Winston Ave., Chicago.  
Stuart, John, A.B., M.D., Toronto, Ont.  
Sullivan, Eugene Adelbert, M.D., Amboy.  
Swanson, John Emil, A.B., M.D., Woodhull.  
Taylor, John Richard, B.D., M.D., Earlville.  
Tieken, Theodore, M.D., 810 Warren Ave., Chicago.  
Timm, Edmund Walter, Ph.G., M.D., Milwaukee, Wis.  
Turner, John Harold, A.B., M.D., Corning, Ia.  
Walsh, Jas. Lawson, M.D., Guthrie, Okla.  
Wanicek, Edward Matthias, M.D., 90 Johnson St., Chicago.  
Weber, Carl Ernest, M.D., Toledo, O.  
Weichbrodt, Ernest August, M.D., 275 Erie St., Chicago.  
Wenzel, John Valentine, Ph.G., M.D., Wakefield, Mich.  
Wherry, Jas. William, M.S., M.D., Clarinda, Ia.  
Whitnore, Eugene Rudolph, B.S., M.D., Ft. Sheridan.  
Wilson, LeRoy Alvin, M.D., Michigan City, Ind.

Winans, Edward Clark, A.B., M.D., Benton Harbor, Mich.  
 Wood, Glenn, M.D., 6401 Kimbark Ave., Chicago.  
 Yeakel, Wm. Kriebel, B.S., M.D., Durand.  
 Yingst, Sallie A., M.D., 4526 Prairie Ave., Chicago.  
 Zurawski, Kasimer Ambrose, M.D., 4800 Loomis St., Chicago.

#### CLASS OF 1900

Alcorn, Archibald John, M.D., 1611 Armitage Ave., Chicago.  
 Avery, Elmer, M.D., 773 Lake St., Chicago.  
 Babcock, Margaret McConnell, M.D., Warren, Pa.  
 Ball, Edmund Joseph, M.D., Plymouth, Ind.  
 Besser, Edward Francis, M.D., Newton, Ia.  
 Birkelund, John Rasmussen, M.D., Phillips, Wis.  
 Blackwelder, Fred Curtis, M.D., Litchfield.  
 Block, Max Emanuel, M. D., 1097 Lincoln Ave., Chicago.  
 Boice, Clyde Allison, M.D., Washington, Ia.  
 Bosler, Arthur Gustavus, M.D., 924 W. 63rd St., Chicago.  
 Bremken, Arthur, M.D., 6151 S. Halsted St., Chicago.  
 Brown, Hadley Cyprian, M.D., Columbus Junction, Ia.  
 Burke, Edward Lawrence, M.D., Vining, Minn.  
 Buswell, Clark Asahel, B.S., M.D., Freeport, Ill.  
 Butler, George F., M.D. (*Ad eundem*), Alma, Mich.  
 Cassidy, William Wilson, M.D., Durand, Wis.  
 Church, Edwin Otis, M.D., Henry, S. Dak.  
 Clancy, Marshall Grant, M.D., 748 W. 61st St., Chicago.  
 Clark, Orson Whitney, M.D., Ogden, Ia.  
 Corbus, Burton Robison, M.D., Alma, Mich.  
 Crowley, John Francis, M.D., 601 Garfield Blvd., Chicago.  
 Culver, John Thayer, M.D., 140 Walnut St., Chicago.  
 DeVault, Asa Nathan, Ph.G., M.D., Martin's Ferry, O.  
 DeVoe, Charles Allen, M.D., Rosendale, Wis.  
 Dolan, Felix Albert, M.D., Missouri Valley, Ia.  
 Donovan, Joseph Patrick, M.D., Milwaukee, Wis.  
 Dowdall, Guy Grigsby, B.L., M.D., Clinton.  
 Dryden, William Francis, M.D., Galva.  
 Dunham, Ora Berton, M.D., 63rd and Stewart Ave., Chicago.  
 Dysart, Robert Jones, M.D., Winnebago, Wis.  
 Early, Calvin Sylvester, M.D., Cranberry, O.  
 Elliott, Sara Thomas, M.D., Richland, Wis.  
 Flint, Nellie, M.D., 415 N. 52d Ave., Chicago.  
 Flippen, George Albert, M.D., Pine Bluffs, Ark.



- Freeman, John Peter, M.D., Glenville, Minn.  
Gale, Roe George, M.D., Medford, Ore.  
Gansel, Edward Arthur, M.D., 773 26th St., Milwaukee, Wis.  
Geiger, Arthur Henry, M.D., 18 Lincoln Ave., Chicago.  
George, Abel Benson, M.D., Elliott, Ia.  
Gilmore, Clifford Freeman, M.D., Lorain, O.  
Goodwin, Henry French, A.B., M.D., 6021 Woodlawn Ave., Chicago.  
Greenfield, Miss Sara Elaine, A.B., M.D., Hiawatha, Kas.  
Grinnell, Wendell, M.D., Preston, Minn.  
Halloin, Louis Joseph, M.D., Green Bay, Wis.  
Hamilton, Howard Brownslee, M.D., Washington, Ia.  
Hamilton, Wilbur S., M.D., Norman, Okla.  
Hampton, Robert Roy, M.D., Salt Lake City, Utah.  
Hart, Henry George, M.D., 100 State St., Chicago.  
Heath, Clarence Wright, B.L., M.D., 103 E. Adams St., Chicago.  
Hixson, Robert Bruce, M.D., Cambridge, Ill.  
Hummel, Edward Percival, M.D., Charles City, Ia.  
Hurst, Everett May, M.D., Cloverdale, Ind.  
Hyde, Edward Everett, M.D., Chicago.  
Jakubowski, Siegfried, M.D., 456 Larrabee St., Chicago.  
Jennings, James Arthur, M.D., 627 Ogden Ave., Chicago.  
Johnston, Robert Moore, M.D., Upper St. Claire, Pa.  
Just, Guy Henry, M.D., Sheldon.  
Kirk, Alonzo Blackburn, M.D., Hibbing, Minn.  
Knauf, Frederick Peter, M.D., New Holstein, Wis.  
Laben, George John, M.D., Crown Point, Ind.  
Lang, John M., M.D., 145 Madison St., Chicago.  
Luehrsmann, Bernard, M.D., Norway, Ia.  
McConnell, John William, M.D., 519 W. Chicago Ave., Chicago.  
McCormick, Olin, M.D., Hersher.  
McCray, Walter Robert, Ph.G., M.D., Marble Rock, Ia.  
Malick, Ada Luella, M.D., Piqua, O.  
Martin, Ernest Edward, M.D., McHenry.  
Masilko, Vandy Frank, M.D., 2170 W. 26th St., Chicago.  
Mason, Harry Philson, M.D., Wilton, Ia.  
Meany, John Joseph, M.D., 1770 Chicago Ave., Chicago.  
Meloy, John Earle, M.D., Lincoln.  
Metz, Irwin Wagner, A.B., M.D., Ashley, Ind.  
Meyhaus, John Henry, M.D., Sunbury, Ia.  
Miller, Bernard, M.D., Evanston.

- Miller, Gustav August, M.D., 798 Van Buren St., Chicago.  
 Milroy, William Denton, A.B., M.D., Delphi, Ind.  
 Mitchell, Paul Stafford, M.D., Iola, Kas.  
 Moffet, William Nelson, B.S., M.D., Conrad, Ia.  
 Moldenhauer, Gustav Herman, M.D., 418 W. Chicago Ave., Chicago.  
 Monahan, Richard Charles, M.D., Charlotte, Ia.  
 Moody, Lewis, A.B., M.D., W. Superior, Wis.  
 Morgan, Emma Nevius, M.D., Rock Island.  
 Muehlmann, Carl George, M.D., Pekin.  
 Murphy, Dr. John B., M.D. (Honorary), 100 State St., Chicago.  
 Nagel, Frank Emil, M.D., 50 Racine Ave., Chicago.  
 Niblock, George Frederick, A.B., M.D., Albion, Ia.  
 Newbold, Edwin Henry, M.D., Oroville, Cal.  
 Newell, Chas. Homer, M.D., O'Neill, Neb.  
 Nier, William Jacob, M.D., 839 S. Halsted St., Chicago.  
 Norsman, Soren Svalheim, M.D., 725 125th St., Chicago.  
 North, Francis Elbert, M.D., Taylorville.  
 Odoardo, Antonio Fredrico, A.B., M.D., Havana, Cuba.  
 Osborne, Claude Fenton, M.D., Aredale, Ia.  
 O'Day, John Christopher, M.D., Montpelier, Ind.  
 Patterson, William Edward, M.D., Green, Ia.  
 Palmer, Ralph Fleetwood, M.D., Cook Co. Hospital, Chicago.  
 Phalen, James Mathew, Ph.G., M.D., Harvard.  
 Pinkerton, Walter Jewett, Waupaca, Wis.  
 Podstata, Vaclav, M.D., Hospital.  
 Potter, Ward Elverton, Ph.G., M.D., 785 W. Madison St., Chicago.  
 Purcell, Harry Edward, M.D., Madison, Wis.  
 Pelletier, Dyre Henry, M.D., St. Anne.  
 Quine, Dr. William E., M.D. (Honorary), 103 State St., Chicago.  
 Rose, Felix, M.D., Green Bay, Wis.  
 Rock, Henry Joseph, M.D., Aberdeen, S. Dak.  
 Runyan, Chandler Preston, M.D., Elwood, Ind.  
 Ryder, Bayard Edward, M.D., Oakes, N. Dak.  
 Richter, Arthur Jacob, M.D., Pine Bluff, Ark.  
 Rinehart, Jesse Samuel, M.D., Camden, Ark.  
 Sargent, Frank Loring, M.D., Marion, Ia.  
 Sassamann, Franklin Wesley, M.D., Valparaiso, Ind.  
 Scott, Robert David, Ph.G., M.D., Sarnia, Ont.  
 Sears, George Lucien, M.D., Milan.  
 Sheppard, Louis Delos, M.D., 108 Loomis St., Chicago.

Sieker, Arthur William, M.D., Franklin, Wis.  
 Staehle, Max, M.D., Manitowoc, Wis.  
 Spain, Robert Thomas, M.D., Des Moines, Ia.  
 Syverson, Elmer Louis, B.L., M.D., Centerville, S. Dak.  
 Smith, Seth Marian Billings, M.D., Crandon, Wis.  
 Sornsen, Antone Augustus, M.D., Summit, S. Dak.  
 Taber, Roland Bert, Ph.C., M.D., Benton Harbor, Mich.  
 Teschan, Rudolf Freimuth, M.D., 103 State St., Chicago.  
 Thompson, James Raymond, M.D., Corning, Ia.  
 Torney, Samuel James, M.D., Staceyville, Ia.  
 Twohig, Henry Edward, M.D., Armstrong, Wis.  
 Tyson, Earle Henry, M.D., Independence, Ia.  
 Vaughan, Dr. Victor C., M.D. (Honorary), Ann Arbor, Mich.  
 Vincent, Henry Ansel, M.D., Perth, Kas.  
 Voigt, Charles Bernard, M.D., Mattoon.  
 Voss, Carl, A.B., M.D., 217 N. Mozart St., Chicago.  
 Wall, Charles Delamere, M.D., 171 Blue Island Ave., Chicago.  
 Weatherston, John, M.D., 3538 Leavitt St., Chicago.  
 West, Theodore Campbell, M.D., Evansville, Wis.  
 Westerlund, Joseph Emanuel, A.B., M.D., Cambridge.  
 Wilson, John West, M.D., Oroville, Cal.  
 Woodford, Erwin Wendell, M.D., Cleveland, O.  
 Wood, Weir, A.B., M.D., Angola, Ind.  
 Xelowski, John Henry, Ph.G., M.D., 570 Blue Island Ave., Chicago.  
 Yung, Julius Rudolph, M.D., Terre Haute, Ind.  
 Zaleski, Joseph Pius, M.D., 4647 S. Ashland Ave., Chicago.

#### CLASS OF 1901

Alexander, Eugene Scott, M.D., 1214 Olive Ave., Indianapolis, Ind.  
 Amerson, William Henry, M.D., 150 S. Sacramento Ave., Chicago.  
 Ames, Andrew James, M.D., 1420 6th Ave. N., Minneapolis, Minn.  
 Apfelbaum, David, M.D., 589 N. Hoyne Ave., Chicago.  
 Baumann, Frederick, Ph.D., M.D., Harrison St. and Wabash Ave.,  
 Chicago.  
 Bechtol, Charles Orville, A.B., M.D., Plaza Hotel, Chicago.  
 Bennett, Henry Sumner, M.D., Moline.  
 Beyer, Arthur Edwin, Ph.G., M.D., Gutenberg, Ia.  
 Billig, George Washington, M.D., 1689 Lincoln Ave., Chicago.  
 Birk, John William, M.D., Bucyrus, O.  
 Birney, Bertha Willing, M.D., Kansas City, Mo.  
 Boss, Jacob Harry, M.D., Clement, Ind.

- Bracken, John Francis, M.D., Lemont.  
Bradfield, James Harvey, M.D., Disco.  
Brewer, Edwin Jason, B.S., M.D., Shabbona.  
Buechner, Frederick Edward Albert, Ph.G., M.D., Chicago.  
Burke, Edward Willis, M.D., Iowa Falls, Ia.  
Burt, Charles Ward, B.S., M.D., Valley Junction, Ia.  
Buss, Francis J., M.D., 658 Loomis St., Chicago.  
Cameron, Warren Leonard, M.D., Medford, Ore.  
Carpenter, Cora White, M.D., Hope, N. Dak.  
Chassell, John Langdon, M.D., Rowan, Ia.  
Church, Elmer, M.D., LaFayette.  
Clark, Leslie W., M.D., Galesville, Wis.  
Conway, Hugh Patrick, M.D., Elroy, Wis.  
Corbett, George William, Ph.G., M.D., Hingham, Wis.  
Corbus, Budd Clarke, M.D., 907 W. Adams St., Chicago.  
Corey, Walter Bennett, M.D., Viroqua, Wis.  
Coumbe, Warner R., M.D., Eagle Corners, Wis.  
Coy, Warren DeWeese, B.S., M.D., Canfield, O.  
Culver, Louise Lockwood, M.D., Sandwich.  
Cunningham, William Dickson, A.B., M.D., Grove City, Pa.  
Cupler, Ralph Clinton, Ph.G., M.D., 119 W. 24th St., Chicago.  
Dennert, Frank, M.D., Dubuque, Ia.  
Denny, Alden Ray, B.P., M.D., Mt. Union, Ia.  
Diven, George Raphield, M.D., Lead, S. Dak.  
Dodson, Charles Augustus, M.D., Niles.  
Dohrmann, George, M.D., 781 W. Wrightwood Ave., Chicago.  
Domer, Walter Amazi, M.D., Wabash, Ind.  
Donkle, Alfred DeForest, M.D., Madison, Wis.  
Dwyer, John Condit, M.D., 878 Jackson Blvd., Chicago.  
Eberhart, Noble Murray, M.D., 2943 Prairie Ave., Chicago.  
English, Edward Glennon, M.D., Arcadia, Wis.  
Fernow, John Adolph William, M.D., St. Louis, Mo.  
Frank, Mortimer, B.S., C.E., M.D., 100 State St., Chicago.  
French, George Marion, M.D., Danville.  
Galloway, George, M.D., 3022 Archer Ave., Chicago.  
Garnett, Isabella Maud, M.D., Chicago.  
Garraghan, Edward Francis, A.B., M.D., 3424 Prairie Ave., Chicago.  
Gorrell, Talbot John Howe, M.D., 475 Oakley Blvd., Chicago.  
Gould, Henrietta, M.D., 266 S. Lincoln St., Chicago.  
Gustafson, Joseph Ansley, M.D., Orion.

- Haan, George W., M.D., Wahoo, Neb.  
Hanshus, John William, Ph.G., M.D., 117 Wells St., Chicago.  
Heilman, Ernest Samuel, M.D., Ida Grove, Ia.  
Heintz, Edward Louis, M.D., Richmond, Mo.  
Henbest, George Murray, M.D., 331 Wilson St., Madison, Wis.  
Hess, William Clarence, M.D., Fanslers, Ia.  
Hews, Lewis DeWitt, M.D., Rockwell City, Ia.  
Hoermann, Bernhard Alfred, M.D., Hartford, Wis.  
Hornback, William Peter, M.D., 531 1st Ave., Council Bluffs, Ia.  
Howe, Frank Stewart, B.S., M.D., Industry, Pa.  
Hoxey, Robert Patton, B.S., M.D., Kinerion, Ia.  
Hubbard, Chester W., M.D., Cedar Rapids, Ia.  
Hunt, Hiram Henry, M.D., Independence, Ia.  
Irish, Henry Eugene, M.D., 627 Grand Ave., Chicago.  
Jacobs, Isaac Melvin, M.D., Perth, Kas.  
Johnson, Albert Cowell, M.D., Sidell.  
Johnson, Cecil Corwin, M.D., Durant, Ia.  
Jordan, Marion Sparehawk, M.D., Grand Mound, Ia.  
Kaeser, Albert Frederick, B.S., M.D., Bloomington.  
Kellogg, James Rossiter, M.D., Portage City, Wis.  
Kennedy, Josie Cecilia, M.D., Rochelle.  
Kerrigan, George Peter, M.D., 610 Lawndale Ave., Chicago.  
Kinder, Roscoe George William, M.D., Rockford.  
Kisecker, David Edgar, M.D., Greencastle, Pa.  
Koch, Wesley Alfred, M.D., Pekin.  
Kubicek, Albert Charles, M.D., 1481 W. Monroe St., Chicago.  
Lampe, Henry George, M.D., 289 W. 18th St., Chicago.  
Lanting, Derk, M.D., Drenthe, Mich.  
Lemon, Herbert Kenton, M.D., 3031 Indiana Ave., Chicago.  
Lennon, Aloysius Joseph, M.D., Joliet.  
Leonard, Henry Sylvester, B.S., M.D., 1805 E. 19th St., Indianapolis,  
Ind.  
Liggitt, Fleming Loureston, M.D., Rankin.  
Ling, Frank Byn, M.D., Chicago.  
Little, Zach Johnson, M.D., Osage City, Kas.  
Lockhart, Carl Wright, Ph.G., M.D., Mellen, Wis.  
Loope, Frank Roy, M.D., Ironwood, Mich.  
Lorch, George John, Ph.G., M.D., Hixton, Wis.  
Luehrs, Henry Eberhart, M.D., Hayton, Wis.  
McAuliffe, Andrew Francis, M.D., Chicago.  
McCall, Harry Kenyon, M.D., Stratford, Ia.

- McClelland, Clarence, M.D., Greenwood, Ind.  
 McCoy, William Merrill, M.D., Clinton, Ia.  
 McDonald, Robert James, M.D., Lost Lake, Wis.  
 McDowell, William David, B.S., M.D., Ogden Ave. and Polk St.,  
 Chicago.  
 McDowell, William Orrin, M.D., Dunkerton, Ia.  
 McGuinn, James Joseph, M.D., 66 Rush St., Chicago.  
 McPherson, Warren Gordon, M.D., Bement.  
 Major, Will, M.D., Aquas Calientes, Mex.  
 Martin, Ralph Hugh, M.D., Bement.  
 Martin, Winifred Byrum, M.D., Rice Bldg., Freeport.  
 Maxwell, John Cunningham, M.D., Penrose.  
 Meadows, Lawrence Harland, M.D., Plainfield, Ia.  
 Meyer, Edward Frederick, M.D., 479 W. Division St., Chicago.  
 Moradian, John K., M.D., 188 N. Clark St., Chicago.  
 Morton, Frank Roy, M.D., 290 LaSalle Ave., Chicago.  
 Nelson, Engelbrecht, M.D., Chicago.  
 Newman, William Manning, M.D., Albert Lea, Minn.  
 Noble, Charles Montague, M.D., Vine Ave. and Park Pl., Chicago.  
 Noland, Phillip Dames, M.D., Kouts, Ind.  
 Oliver, Clifford Irwin, M.D., Graceville, Minn.  
 Orcutt, Dwight Chapman, M.D., 108 Adams St., Chicago.  
 Palmer, John Mathiew, M.D., Grays Lake.  
 Parker, William Riley, M.D., Dixon.  
 Parry, Ivan Arthur, M.D., Seattle, Wash.  
 Peterson, Hans Peter Christian, Ph.G., M.D., 135 Humboldt Blvd.,  
 Chicago.  
 Petry, Franklin, M.D., Akron, Ind.  
 Pleth, Vera Wallen, M.D., 1556 Milwaukee Ave., Chicago.  
 Polson, Nina Dell, M.D., Laclede, Mo.  
 Pratt, Irene Robinson, M.D., Austin.  
 Rhodes, Ora Marcus, B.S., M.D., Bloomington.  
 Rich, Katherine Brainerd, M.D., 469 Washington Blvd., Chicago.  
 Ridenour, Joseph Elmer, M.D., Garrison, Ia.  
 Ringo, George Roy, M.D., Chicago.  
 Robertson, William Fernando, M.D., Lamoni, Ia.  
 Rolfs, Theodore Henry, M.D., 225 13th St., Milwaukee, Wis.  
 Sage, Edward Daniel, M.D., Otsego, Mich.  
 Scholtes, Theodore William, M.D., Reads Landing, Minn.  
 Scofield, Charles James, M.D., Chicago.  
 Sears, Charles Edwin, M.D., Sears.

- Seifert, Mathias Joseph, M.D., 171 Eugenie St., Chicago.  
 Severson, William Reynolds, M.D., 1125 W. North Ave., Chicago.  
 Shanks, James Wilson, M.D., Grand Rapids, Mich.  
 Shaw, Robert Henry, M.D., Annawan.  
 Sherwood, Hauphrey Helm, Ph.G., M.D., New Windsor.  
 Shook, William Edward, M.D., South Auburn, Neb.  
 Smedley, Irene, M.D., Tama, Ia.  
 Smith, Hugh Emory, M.D., Ithaca, Mich.  
 Smith, James Tyler, M.D., Chicago.  
 Soegaard, Erik, M.D., Kristiana, Norway.  
 Sommers, Julius Charles, M.D., Madison, Wis.  
 Sternburg, Walter A., M.D., Prairie City, Ia.  
 Stilwill, Hiram Read, M.D., Avon, S. Dak.  
 Stober, Alvin Martin, M.D., Greene, Ia.  
 Storck, William, Ph.G., M.D., 5490 Washington Ave., Chicago.  
 Streich, Edwin August, Ph.G., M.D., Oshkosh, Wis.  
 Struthers, Herbert Rankin, Ph.G., M.D., Chicago.  
 Talmage, George Gordon, M.D., Kendallville, Ind.  
 Thorwick, Martha Gurine, M.D., 122 Warren Ave., Chicago.  
 Tillmont, Charles Peter, M.D., Centerville, Ia.  
 Treacy, Frederick, M.D., Lewistown, Mont.  
 \*Turner, Agnes, M.D.  
 Turner, DeLos Ashley, M.D., DeLamar, Neb.  
 Ulrich, Julius Hirsh, M.D., Peoria.  
 Urquhart, Roy Thomas, M.D., South Bend, Ind.  
 Van Horne, James Aphorp, M.D., Omaha, Neb.  
 Vestling, Victor Immanuel, A.B., M.D., Marquette, Kas.  
 Von Wedelstaedt, Bismarck, M.D., 5705 Kimbark Ave., Chicago.  
 Wallace, Franklin Lamphere, M.D., Ponca City, Okla.  
 Wallen, Vera, M.D., 955 N. Fairfield Ave., Chicago.  
 Wells, William Burdick, A.B., M.D., Milton, Wis.  
 Wheat, Fred Caldwell, M.D., Ellsworth, Minn.  
 Wiltfong, Charles Oscar, M.D., Chesterton, Ind.  
 Windrow, Anna Sophia, M.D., 408 Dearborn Ave., Chicago.  
 Wright, Charles Ely, M.D., Scales Mound.  
 Yelton, Winifred Irene, M.D., Yale.  
 Zabortsky, Joseph, M.D., Chicago.

**CLASS OF 1902**

- Aaron, William Hubert, M.D., Pawhuska, Okla.  
 Albright, Jacob L., M.D., 4467 5th Ave., Chicago.

- Aldrich, Frederick Herrick, M.D., Morton, Minn.  
 Arnold, Byron Jonathan, M.D., Jefferson, Tex.  
 Asbury, Joseph Thomas, M.D., Bowen.  
 Baker, William Edward, M.D., Chicago.  
 Barron, Annie E., M.D., Chicago.  
 Bartholomew, Philip Henry, M.D., Geddes, S. Dak.  
 Bashshur, Bashshur J., A.B., M.D., Tripoli, Syria.  
 Bayer, William Henry, M.D., Honey Creek, Wis.  
 Beam, J. Albert, A.M., M.D., Carlton, O.  
 Beebe, Leslie Walter, A.B., M.D., 1255 Oak Park Blvd., Chicago.  
 Belknap, William Henry, M.D., Greenville, Mich.  
 Benedict, Charles Chester, M.D., Joliet.  
 Bennett, Louis Jerome, M.D., Oregon, Wis.  
 Bice, Clyde William, M.D., Bouton, Ia.  
 Bonine, James Gordon, B.S., M.D., 156 Milwaukee Ave., Chicago.  
 Borden, Frank Runcorn, Ph.G., M.D., Plainfield, Wis.  
 Bothne, Ealing Alfred, A.B., MD., Lake Park, Minn.  
 Brawley, Frank Ellis, Ph.G., M.D., 5445 Drexel Ave., Chicago.  
 Breid, Maria, M.D., Trenton, Mo.  
 Breid, Jacob, A.B., M.D., Trenton, Mo.  
 Brown, Ernest L. W., M.D., Lennox, Ia.  
 Brown, Josiah Scott, M.D., 32 S. Hoyne Ave., Chicago.  
 Brown, Roy Earle, M.D., Washington, Ohio.  
 Brownstein, Bernard, M.D., 476 N. Ashland Ave., Chicago.  
 Bundy, Corydon DeKalb, M.D., Freeland Park, Ind.  
 Burnham, Clarence Martin, M.D., Watseka.  
 Burns, Elizabeth Viola, M.D., 4361 N. Ashland Ave., Chicago.  
 Burns, Floyd William, M.D., 735 Laurel Ave., St. Paul, Minn.  
 Cain, Clark Leon, M.D., Wintry, Wis.  
 Campbell, Frederic Alexander, M.D., Waverly, Ia.  
 Campbell, Joseph Howard, M.D., Danville.  
 Carrico, James Huston, A.B., M.D., Woodburn, Ore.  
 Cleary, John Henry, M.D., Kenosha, Wis.  
 Clemons, Ezra Jay, M.D., Aberdeen, S. Dak.  
 Coates, Lintsford B., Jr., M.D., 1441 Aldine Ave., Chicago.  
 Cobb, Henry Aaron, M.D., Ida Grove, Ia.  
 Conant, Philo Bierce, M.D., West Side Hospital, Chicago.  
 Corcoran, Edward Augustine, M.D., Postville, Ia.  
 Cornell, J. Frank, B.S., M.D., Lincoln, Ind.  
 Curtis, Louis Franklin, M.D., Mt. Pulaski, Ia.  
 Dalager, Norman Ottoman, M.D., Austin, Minn.



- Davis, Charles Johnston, M.D., Ogden Ave. and Millard St., Chicago.
- Davis, Edward Griffith, M.D., 2501 N. Hermitage Ave., Chicago.
- Day, Harriet March, M.D., Moweaqua.
- Dean, Joseph, Jr., M.D., Madison, Wis.
- Deetken, Henry Charles, M.D., Council Bluffs, Ia.
- Dike, Charles Eugene, M.D., Lyon, Wis.
- Dittman, George Charles, Ph.G., M.D., 1731 Belmont Ave., Chicago.
- Dorn, Charles Adolph, Ph.G., M.D., Waterville, Minn.
- Dumas, Dalbert Frederick, M.D., Minneapolis, Minn.
- Dvorsky, Bohumir, M.D., 584 Center Ave., Chicago.
- Emerson, A. Vernon, M.D., Rochester, Minn.
- Enos, M. Manley, M.D., 1384 Madison St., Chicago.
- Everett, Henry H., M.D., Holland, Mich.
- Faeth, Victor Peter, M.D., care Oakes Home, Denver, Colo.
- Farnham, Alford Jay, M.D., Traer, Ia.
- Fay, Oliver James, B.S., M.D., Postville, Ia.
- Fisher, Evelyn Battelle, Ph.B., M.D., Monroe, Ia.
- French, Wilbur Maynard, M.D., Lancaster, Mo.
- Fritch, George Ambrose, M.D., Richwood, Ont.
- Frudenzfeld, Henry H., M.D., Madison, S. Dak.
- Fukla, Charlemagne V., M.D., Vienna, Austria.
- Fuller, Francis Elmer, M.D., 3 Broad St., Adrian, Mich.
- Gallagher, Robert Vincent, M.D., Riley, Mich.
- Garrett, Emmett Amasa, M.D., Sparland.
- Garrett, John Dempsey, A.B., M.D., Bell, O.
- Gibbs, Joseph Addison, M.D., 25 Lexington St., Chicago.
- Glynn, Charles Edward, M.D., Gabriel, Ia.
- Grabow, Paul Ernest, M.D., Oak Park.
- Graham, Archie James, B.S., M.D., Gallipolis, O.
- Grant, Margaret Stough, A.B., M.D., Ottawa, Kas.
- Green, Mary Emily, M.D., Charlotte, Mich.
- Green, Ralph Rustin, M.D., Charlotte, Mich.
- Gross, John Otto, M.D., Escanaba, Mich.
- Gulick, Clyde Denny, B.S., M.D., Urbana.
- Gunning, John Macauley, M.D., Wilbur, Wash.
- Hahn, Louis August, M.D., Galesburg.
- Hammers, Lewis Joseph, M.D., Chenoa.
- Harroun, William Arthur, M.D., Portland, Ore.
- Hathaway, Robert Eugene, M.D., Chicago.
- Haynes, Benjamin Hubert, M.D., Estherville, Ia.

- Heller, William Henry, M.D., Marcus, Ia.  
Helmey, Carl Theodore, M.D., Canton, S. D.  
Henderson, Maurice Leroy, M.D., Moscow, Ia.  
Herrington, Charles Warren, M.D., Madison, Wis.  
Hicks, J. Calvin, M.D., Polo.  
Hill, Emma L., M.D., Oswego, Kas.  
Hill, William Crawford, M.D., Murphysboro.  
Hinckley, Harry G., M.D., St. Lawrence Ave. and 47th St., Chicago.  
Hollis, William Allen, Ph.B., M.D., Hartford City, Ind.  
Holmes, John Musser, M.D., Monticello.  
Hoopes, F. Clifford, M.D., Pickrell, Neb.  
Hornibrook, Freeman Harding, M.D., Cherokee, Ia.  
Howard, Glenn Atherton, M.D., Columbus, Wis.  
Howard, Harry Willard, M.D., Spokane, Wash.  
Howard, John Fred, M.D., Chicago.  
Hyde, David Lancaster, M.D., 26 Aberdeen St., Chicago.  
Inks, Charles Andrew, M.D., Nappanee, Ind.  
Jamison, Garling U., M.D., Clarksville, Tex.  
Johnson, Paul Wardner, B.L., M.D., Milton, Wis.  
Johnson, Wilbur Vogt, M.D., 439 W. Ohio St., Chicago.  
Johnson, Willard Bruce, M.D., Des Moines, Ia.  
Jordan, Alfred Bernard, M.D., San Francisco, Cal.  
Kaa, Niels Andersen, M.D., Dixon.  
Kaenmerling, George Peter, M.D., 2314 Cherry St., Milwaukee,  
Wis.  
Kimball, George W., M.D., Steward.  
King, Frank Aylsworth, M.D., Benton Harbor, Mich.  
Krich, John Patrick, M.D., 45 W. 30th St., Denver, Colo.  
Kittler, Walter Eugene, M.D., Wauwatosa, Wis.  
Kitterman, Frederick Raymond, M.D., Tiskilwa.  
Kittermann, P. Gad., M.D., Ottumwa, Ia.  
Klehm, Amelia Louise, M.D., Niles Center.  
Klinger, Ellis Gise, M.D., Manhattan.  
Knox, Thomas Blackburn, M.D., Madison, Wis.  
Kurtz, Fred Baldwin, M.D., Princeton, Ind.  
Kyes, Sherman Morris, M.D., Oshkosh, Wis.  
Lahodney, Charles J., M.D., 307 Stevenson St., Chicago.  
Lane, Charles Sumner, M.D., South Lyon, Mich.  
Larson, Carl Ludwig, M.D., 9041 Greenby Ave., Chicago.  
Leavitt, Frank James, M.D., Langford, S. D.  
Leehey, Florence Patrick, M.D., Fairbank, Ia.

- Little, Ernest Hartley, M.D., Minburn, Ia.  
Lockwood, Charles Richard, M.D., Rotunda Hospital, Dublin, Ireland.  
Lofgren, Carl Albin, A.B., M.D., Dayton, Ia.  
Lowe, Lew Morgan, M.D., Slayton, Minn.  
Lowry, Norbert Julius, M.D., Cresco, Ia.  
Lunn, Martin Jacob, M.D., Beloit, Wis.  
Lyon, George Elmer, M.D., Rochelle.  
McCarthy, Katherine W., M.D., 47 Humboldt Blvd., Chicago.  
McCarty, William T., Ph.G., M.D., Campbellsport, Wis.  
McConvill, Bernard James, M.D., Lodi, Wis.  
McGrath, Benjamin R., M.D., Savanna.  
McGuire, Charles John, M.D., 3351 Park Hill Ave., Milwaukee, Wis.  
McIntyre, Arthur Cecil, M.D., Mendota.  
McKinney, Newton Charles, M.D., Camargo.  
McNeil, Benjamin F., M.D., Ft. Dodge, Ia.  
Magnus, Max Edward, M.D., 681 Hayes St., San Francisco, Cal.  
Manning, Thomas Francis, M.D., Juneau, Wis.  
Maris, Emilie Rebecca, M.D., Duluth, Minn.  
Martinson, Martin M., M.D., Algona, Ia.  
Martinson, Stelle C., M.D., Algona, Ia.  
Merki, Emil John, M.D., 2397 N. Ashland Ave., Chicago.  
Merryman, George Harris, M.D., Hillsboro, Ore.  
Meyers, Judson Melvin, M.D., Verona, Wis.  
Miller, Charles Arthur, M.D., Makanda.  
Miller, George Louis, M.D., Champaign.  
Miller, Robert Williamson, M.D., Comely, Ohio.  
Mitchell, William Frank, B.S., M.D., Superior, Wis.  
Montgomery, John Roe, M.D., Madison, Neb.  
Morrill, Harlon Justin, M.D., Minneapolis, Minn.  
Morris, Robert Wilson, A.B., M.D., Chicago.  
Murphy, Francis Thomas, M.D., 2223 Jackson Blvd., Chicago.  
Nadig, Anton T., M.D., Stockton.  
Nickelsen, George A., M.D., Corpus Christi, Tex.  
Overmass, Samuel Edward, M.D., Chicago.  
Ottersbach, Cark, M.D., Waken Ryeinland, Germany.  
Overton, Orville Perry, A.B., M.D., Brownsville, Ore.  
Parker, Charles Eugene, M.D., Gilman.  
Patterson, William Madison, M.D., Farmer City.  
Perry, John Morris, M.D., Princeton, Mo.  
Phifer, Charles Herbert, M.D., 4147 Lake Ave., Chicago.

- Phillips, Floyd, Ph.G., M.D., Tuscola.  
Plice, William A., Ph.G., M.D., 410 S. California Ave., Chicago.  
Podger, Maxwell Philip, M.D., 204 W. 12th St., Chicago.  
Poinier, Edwin William, M.D., 2345 N. 44th Ave., Chicago.  
Potter, Charles A., M.D., Geneva.  
Powers, Herbert William, M.D., Chicago.  
Rodefeld, Henry Herman C., M.D., Quincy.  
Rooks, John J., M.D., 186 Bates St., Grand Rapids, Mich.  
Root, Romeo Richmond, M.D., Tempe, Ariz.  
Rosenthal, George Ernest, M.D., Quincy.  
Ruge, Edward Cornelius, M.D., So. Bend, Ind.  
Rydin, Carl Gustaf S., M.D., 1775 N. Clark St., Chicago.  
Sabin, Alexander C., Jr., M.D., Beatrice, Neb.  
Sawtelle, Henry Fenno, M.D., Staten Island, N. Y.  
Schaefer, Paul Henry, M.D., Burlington, Ia.  
Sessions, John Chandler, M.D., 2518 3rd Ave., S., Minneapolis,  
Minn.  
Shafer, Howard O., M.D., Chicago.  
Sheller, William Owen, B.S., Ph.G., M.D., Ashland, Ohio.  
Shelton, R. O., M.D., Pulaski, Ia.  
Siegfriedt, J. C. Fred, M.D., Davenport, Ia.  
Slater, Henry Herbert, M.D., Deer Park, Wash.  
Sleyster, L. Rock, M.D., 661 Jackson Blvd., Chicago.  
Smiley, R. Borden, M.D., Waupaca, Wis.  
Smith, Clyde Livingstone, M.D., Shelbyville.  
Smith, George W., M.D., Galesburg.  
Souder, Ulysses Grant, M.D., 235 Ogden Ave., Chicago.  
Standley, Kathryn Vance, M.D., Laclede, Mo.  
Steckle, Allen Chubb, M.D., Reno, Nev.  
Stettauer, Joseph Louis, M.D., Chicago.  
Stevens, Samuel Lorenzo, M.D., 113 E. Moulton St., Bloomington.  
Stillman, Wayne L., D.V.S., M.D., Newell, Ia.  
Stoops, Robert Earl, M.D., Edgerton, Ohio.  
Strong, Charles David, M.D., Redlands, Cal.  
Sunde, Peter H., M.D., 783 N. Rockwell St., Chicago.  
Taylor, Charles Irwin, M.D., Indianola, Ia.  
Thomas, William Harper, M.D., Traer, Ia.  
Tolley, Elmer Whitfield, Oph.D., M.D., 105 Grand Ave., Milwaukee,  
Wis.  
Trail, Charles Jephthah, M.D., Independence, Ia.  
Tyvand, James, M.D., Forward, Wis.

- Venard, Thomas S., M.D., Ness City, Kas.  
 Venn, Walter Thomas, M.D., 325 S. Lake St., Aurora.  
 Wachowski, John George, Ph.G., M.D., 680 W. 18th St., Chicago.  
 Walliker, Wilbur Myron, M.D., 201 Weston Bldg., Clinton, Ia.  
 Walvoord, Gerret William, M.D., Cedar Falls, Ia.  
 Waskow, Otto George, Ph.G., M.D., 1476 Milwaukee Ave., Chicago.  
 Weaver, Ben: Perley, B.S., M.D., Danville.  
 Welch, Jeanette C., Ph.D., A.B., M.D., Benton Harbor, Mich.  
 Werelius, Axel F. W., M.D., 5535 May St., Chicago.  
 Whyte, Peter Duncan, M.D., Chicago.  
 Wiley, Jesse Bertram, M.D., Buckgrove, Ia.  
 Wilson, John Miller, B.L., M.D., Chicago.  
 Winters, William Thomas, M.D., 456 S. Wood St., Chicago.  
 Yantis, David Earl, M.D., Foosland.  
 Yeates, William, M.D., Kankakee.  
 Young, Charles G., Ph.G., M.D., Dickenson, N. D.  
 Young, Mrs. C. C., M.D., Emporia, Kas.  
 Zilisch, William Edward, M.D., Hustiford, Wis.  
 Zohrlaut, George Guido, M.D., 141 Locust St., Milwaukee, Wis.

#### CLASS OF 1903

- Adams, Lewis Hicks, Ph.G., M.D., Larrabee, Ia.  
 Altman, Maurice, M.D., 825 Congress St., Chicago.  
 Anderson, Emil Bernard, M.D., 1361 N. Spaulding Ave., Chicago.  
 Anderson, Norman Edgar, M.D., Marshfield, Wis.  
 Anderson, Samuel Milligan, Ph.B., M.D., Wichita, Kas.  
 Ash, Mary Ella, B.S., M.D., Oneida, Ill.  
 Baird, Mary Brooks, A.B., M.D., 32nd and Rhodes Ave., Chicago.  
 Barker, Frank Marion, A.M., M.D., 117 S. Wood St., Chicago.  
 Barnes, Charles Edward, M.D., 1839 Indiana Ave., Chicago.  
 Barnsback, Jacob Lester, M.D., Edwardsville.  
 Barnum, William Truman, M.D., 1150 Wilcox Ave., Chicago.  
 Barricelli, Giovanni Alphonso, A.B., M.D., 9½ Woodland Ave.,  
 Cleveland, Ohio.  
 Bechtol, Nancy Lee, M.D., The Plaza, Chicago.  
 Beck, Frank Pierce, M.D., Brocton.  
 Beck, Viola Bandy, M.D., Brocton.  
 Beebe, Orville Everett, M.D., Kankakee.  
 Birney, Edith Stockton, M.D., 1516 22nd St., Washington, D. C.  
 Birney, Varillas Cleuthas, Jr., M.D., Greene, Ia.  
 Blough, George Franklin, M.D., LaGrange, Ind.

- Bottom, Charles Norman, B.S., M.D., Marquette, Mich.  
 Brown, Alice Barlow, M.D., 225 Dearborn Ave., Chicago.  
 Bryan, Thomas Albert, M.D., Greencastle, Ind.  
 Buchanan, Thomas Ambrose, M.D., East St. Louis.  
 Burchett, Edwin, M.D., Molton, Ia.  
 Burgess, Charles Oliver, M.D., Fisher.  
 Butterfield, Edwin Jay, M.D., Aukeny, Ia.  
 Carpenter, Jessie Drew, M.D., 40 E. Randolph St., Chicago.  
 Casavaw, William Francis, M.D., Omemee, N. D.  
 Clark, Frank H., M.D., Shambaugh, Ia.  
 Clarke, Harry Payne, M.D., 1001 Mesa Ave., El Paso, Tex.  
 Claybaugh, William Ross, M.D., Wayne, Neb.  
 Cleveland, Charles William, M.D., 951 Harrison St., Chicago.  
 Cohen, Sylvan Gabriel, M.D., 220 Fremont St., Chicago.  
 Collins, Meta Viola, M.D., El Dara.  
 Conley, Bernard Montrose, M.D., Boone, Ia.  
 Converse, Blanche Elizabeth, A.B., M.D., Chapman, Kas.  
 Copenhaver, John Harvey, M.D., Bellflower.  
 Crew, Ely Rich, B.E., M.D., Waynesville, Ohio.  
 Cummings, Henry Thompson, M.D., 304 30th St., Chicago.  
 Dakin, Robert Griffin, M.D., Melvin.  
 De Neveu, Arthur Valentine, 430 S. Jefferson St., Green Bay, Wis.  
 Derdiger, Aria Louis, M.D., 772 Jackson Blvd., Chicago.  
 Desmond, Michael Ambrose, M.D., Rushford, Minn.  
 Dodds, David Chillingworth, B.S., M.D., Lawrence, Kas.  
 Donkle, Lucius Boardman, M.D., 545 N. Leavitt St., Chicago.  
 Dorn, Frederick Rhinhart, M.D., Echo, Ore.  
 Doty, Clarence Hayes, M.D., Union, Ia.  
 Dunn, Clara, M.D., 403 S. Lincoln St., Chicago.  
 Dvorak, Matthew William, M.D., 1422 7th St., LaCrosse, Wis.  
 Eddy, Irving Herbert, M.D., Audubon, Ia.  
 Egbert, Charles Lloyd, M.D., Bolivar, Mo.  
 Eldredge, Richard Leonard, 910 Harrison St., Chicago.  
 Estes, Ransom Logan, M.D., Neoga.  
 Fanyo, Fred, M.D., Watseka.  
 Fee, Louis Walter, B.S., M.D., Quimby, Ia.  
 Ficke, Emil Otto, M.D., Davenport, Ia.  
 Fischer, Oscar Gustav, M.D., 903 Kedzie Ave., Chicago.  
 Fisher, Frank Crist, M.D., Bloomington.  
 Fogle, Clara, M.D., Herrick.  
 Forbes, Harvey James, M.D., New Hampton, Ia.

- Forkin, William Patrick, M.D., Chilton, Wis.  
 Foster, Lloyd Bartmess, M.D., 4615 E. 7th St., Kansas City, Mo.  
 Frechtling, Louis Henry, M.D., Hamilton, Ohio.  
 Fucik, Edward John, M.D., 801 S. Sawyer Ave., Chicago.  
 Gag, Edward William, M.D., New Ulm, Minn.  
 Gardner, George Albert, M.D., W. 12th St. and 46th Ave., Chicago.  
 Geiger, Louis Henry, M.D., Gilman.  
 Geisel, Ezra Edward, M.D., Wilmont, Minn.  
 Gilhus, Adolph Thomas, M.D., 530 Jackson Blvd., Chicago.  
 Goldberger, Henry Enoch, Ph.G., M.D., 868 E. 50th St., Chicago.  
 Golembiowski, Julian J., M.D., 519 Milwaukee Ave., Chicago.  
 Gourley, Frederick Lantz, M.D., Paxton.  
 Greaves, Walter Wood, M.D., 338 S. Waller Ave., Austin.  
 Haeusler, Anna Martha, M.D., 645 W. Chicago Ave., Chicago.  
 Hagen, Ollie Ellend, M.D., Butterfield, Minn.  
 Hagyard, Charlton Edward, Ph.G., M.D., Winnipeg, Manitoba.  
 Hall, Milton Weston, B.S., M.D., 1134 Judson Ave., Evanston.  
 Harrison, Calvin Willoughby, Ph.B., M.D., 185 W. Madison St.,  
 Chicago.  
 Hart, William Edward, M.D., Galva, Ia.  
 Haskell, John Eddy, A.B., M.D., Green Castle, Ind.  
 Hawkins, George Merrill, M.D., Polo.  
 Helz, Joseph William, M.D., Fond du Lac, Wis.  
 Hess, Meda, M.D., Owosso, Mich.  
 Hewins, Henry Augustine, M.D., Rankin.  
 Hilger, Joseph Michael, M.D., Mazeppa, Minn.  
 Holmes, Edward Marcellus, M.D., 1629 Ogden Ave., Chicago.  
 Holmes, Philip Henry, M.D., 6418 Stewart Ave., Chicago.  
 Hood, Jacob Jesse, M.D., Morton Park.  
 Hooge, Ludwig Frederick, M.D., 7526 Ellis Ave., Chicago.  
 Horn, Archie Solomon, M.D., Pewaukee, Wis.  
 Houda, Emil Otto, M. D., 879 19th St., Chicago.  
 Howard, George Herbert, M.D., 1005 51st St., Chicago.  
 Howe, Lyston Drewette, M.D., Streator.  
 Jackson, Edward Worthington, M.D., Kankakee.  
 Jacobs, Harry Leonard, M.D., 5040 Cottage Grove Ave., Chicago.  
 Jenkinson, Ernest Albert, M.D., 608 Metropolitan Bldg., Sioux  
 City, Ia.  
 Jennings, Harriet Belle, M.D., 6214 Madison Ave., Chicago.  
 Jennings, Ralph Emmett, M.D., Templeton, Ind.  
 Jenson, Anton Byron, M.D., Fredonia, Wis.

- Jewell, Milton Dana, B.S., M.D., Decorah, Ia.  
Johnson, Julius A., B.S., M.D., Black River Falls, Wis.  
Johnson, Lyford McChesney, Ph.G., M.D., Fisher.  
Johnson, Nellie Bernice, M.D., Danville.  
Jones, Margaret May, B.S., M.D., Mason City, Ia.  
Joyce, Martin Thaddeus, M.D., Brinsmade, N. D.  
Katz, Bernard Gerson, Ph.C., M.D., 4850 Prairie Ave., Chicago.  
Kaupp, Albert Theodore, M.D., Diller, Neb.  
Kavaljian, Zarohie Serope, M.D., Adabazar, Turkey.  
Kenny, Harry Thomas, M.D., Cherokee, Wis.  
Kincaid, John Herbert, M.D., 1402 Wrightwood Ave., Chicago.  
King, Robert Crump, M.D., Emmettsburg, Ia.  
Kingston, Elwood Almon, A.B., M.D., Picton, Ontario.  
Klinefelter, L. Edgar, M.D., Belle Plain, Ia.  
Kuznik, Maxmilian, M.D., 429 Oak St., Chicago.  
Lamb, James Garfield, M.D., Vorhies.  
Landau, David Ralph, Ph.G., M.D., 5109 Ashland Ave., Chicago.  
Lang, Henry William, M.D., 740 W. Chicago Ave., Chicago.  
Lebensohn, Mayer Harris, M.D., Paulina and Taylor Sts., Chicago.  
Leonard, Edward Franklin, M.D., 2182 N. Hermitage Ave., Chicago.  
Long, William Ernest, M.D., Maple and Foster Sts., Evanston.  
McCarty, Charles Elias, M.D., Ancona, Fla.  
McCarthy, Harry C., M.D., Richland Center, Wis.  
McGann, Michael Edward, M.D., 547 S. Chicago St., Joliet.  
Mack, Burton Wilson, M.D., 4122 Vincennes Ave., Chicago.  
McNeil, Neil Munn, M.D., 1003 Walnut St., Chicago.  
McNett, Clarence Lloyd, M.D., Cary Station.  
Madden, William Dunn, M.D., Lyons, Ia.  
Maloy, Bernard Sylvester, M.D., 622 57th St., Chicago.  
Mellen, Charles Sylvester, M.D., 748 W. Harrison St., Chicago.  
Molnar, Helena Bozena, M.D., 561 W. 21st St., Chicago.  
Moore, Ernest Sisson, Ph.D., M.D., 340 Marshfield, Chicago.  
Moore, Will H., M.D., 104 E. 40th St., Chicago.  
Morgan, Charles McRae, A.B., M.D., Camden, Ark.  
Myers, Carleton Spencer, M.D., 6527 Yale Ave., Chicago.  
Napieralski, Emanuel Ferdinand, M.D., 682 W. 14th St., Chicago.  
Nielsen, Niels Nicolai John, M.D., 618 N. Artesian Ave., Chicago.  
Nowakowski, John J., M.D., 618 W. 17th St., Chicago.  
Null, Marion Michael, B.S., M.D., Blandinsville.  
Oberholtzer, Edward James, Ph.G., M.D., Williamsfield.  
Osher, Julius C., D.D.S., M.D., 185 W. Madison St., Chicago.



- Parkinson, William Brigham, Jr., M.D., Logan, Utah.  
Patera, Edward, Ph.G., M.D., 495 Winchester Ave., Chicago.  
Penrice, Henry Milton, M.D., 2123 W. Adams St., Chicago.  
Phillips, Charles Eaton, A.B., M.D., Millington.  
Phillips, William Chambers, Ph.G., M.D., Clarinda, Ia.  
Pitzele, William Aaron, M.D., Loraine, Ohio.  
Pokorney, Frank Joseph, Ph.G., M.D., 221 W. 12th St., Chicago.  
Porter, William H., M.D., Walhalla, N. D.  
Poorman, Charles Wallace, M.D., Junction City, Kas.  
Pope, Frank Waldemar, M.D., 914 State St., Racine, Wis.  
Porges, Irving Angel, M.D., 3329 Forrest Ave., Chicago.  
Power, Lamar Matthew, M.D., 512 Campbell St., Escanaba, Mich.  
Powers, John William, M.D., Savanna.  
Ransom, Charles Wallace, M.D., 609 Madison St., Madison, Wis.  
Reay, Matthew Simpson, M.D., Braceville.  
Reese, Ernest Gray, Ph.C., M.D., Independence, Kas.  
Reeves, Emory West, M.D., Burr Oak, Ind.  
Rightman, William M., M.D., 401 W. Taylor St., Chicago.  
Robbins, Emma Eliza, M.D., Ord, Neb.  
Robbins, Nelson John, M.D., Ishpeming, Mich.  
Roberts, Harry Burton, M.D., Highland Park, Mich.  
Ryerson, Esther Annie, M.D., 26th and Marcy Sts., Omaha, Neb.  
Ryerson, Helen Louise, M.D., 699 Jackson Blvd., Chicago.  
Sackett, Lloyd Melville, M.D., Parsons, Kas.  
Saunders, Clark Edward, M.D., Union, Ore.  
Seelye, Norman Lee, M.D., 910 Clybourn Ave., Chicago.  
Seidel, Albert Christian William, M.D., 1389 Ogden Ave., Chicago.  
Shepherd, William Arthur, M.D., Grand Rapids, Wis.  
Sherrill, Joseph Johnston, M.D., 178 S. Halsted St., Chicago.  
Sibley, Leroy Hall, M.D., Peru, Ind.  
Snyder, Charles Watson, M.D., 3210 Wabash Ave., Chicago.  
Spriggs, Gertrude Anna, M.D., 315 Van Ness Ave., San Francisco,  
Cal.  
Stoops, Roy Philson, M.D., Norman, Okla.  
Stoughton, Elgin Leroy, M.D., Mt. Moriah, Mo.  
Strawn, Julia Clark, M.D., 4400 Ellis Ave., Chicago.  
Sure, Julius Hilton, M.D., Berlin, Wis.  
Swarthout, Ellis Frank, M.D., Pine Island, Minn.  
Szwajkart, Adam, M.D., 658 N. Ashland Ave., Chicago.  
Thayer, Frederick Almon, M.D., Jefferson, Wis.  
Thomas, Benjamin, M.D., 323 S. Halsted St., Chicago.

- Thomas, Matilda Minnis, M.D., 323 S. Halsted St., Chicago.
- Thompson, Gertrude Frances, M.D., 94 N. Kedzie Ave., Chicago.
- Tomhagen, Laura S., M.D., 2433 N. Hermitage Ave., Chicago.
- Tufts, Frank Servetus, M.D., 5726 S. Green St., Chicago.
- Tweedall, Daniel Greenwood, M.D., 820 W. Indiana St., Evansville, Ind.
- Ullman, Eva Prescott, M.D., 551 S. Sacramento Ave., Chicago.
- Uran, Joseph Alfred, M.D., Kankakee.
- Urmston, Paul Robert, M.D., Hamilton, Ohio.
- Vance, Harvey Marshall, M.D., Bement.
- Vaughan, Harry Floyd, M.D., Swanton, Ohio.
- Von der Heydt, Robert, M.D., 357 Ogden Ave., Chicago.
- Voris, Henry McMunn, M.D., Neoga.
- Vorsanger Rosa, M.D., 424 W. Congress St., Chicago.
- Waddle, Herbert Clarke, M.D., 609 Congress St., Chicago.
- Wagner, William Christian, M.D., Vinton, Ia.
- Walsh, John Poler, M.D., 3255 State St., Chicago.
- Was, François John Theodorus, M.D., 422 106th Pl., Chicago.
- Waufle, Guy Clifford, M.D., Capron.
- Wear, Newton Whitney, M.D., Plymouth.
- Webber, Blanche Edith, M.D., 4213 Lake Ave., Chicago.
- Webster, Josephine Ella, M.D., 441 Englewood Ave., Chicago.
- Weld, James C., M.D., 4162 Berkeley Ave., Chicago.
- Werner, Nels Lawrence, M.D., Diamond Bluff, Wis.
- Wessels, Walter Fred, M.D., 1021 State St., Quincy.
- Whitehill, Frank Perrine, M.D., Silver City, N. H.
- Wichmann, Henry Thomas, M.D., 225 Marianna Ave., Chicago.
- Wichs, Seth, M.D., 1703 Addison Ave., Chicago.
- Williams, Charles LaFayette, M.D., Greensburg, Ind.
- Willson, Lamont Roy, M.D., New Hampshire, Ia.
- Wilson, James William, M.D., 671 W. 22nd St., Chicago.
- Winne, Charles Walter, Ph.C., M.D., 869 Walnut St., Chicago.
- Winston, Verne Ernest, M.D., Evansville, Wis.
- Wochos, Wenzel Matthias, M.D., Stangelville, Wis.
- Wood, James Manley, B.S., A.B., Ph.B., M.D., 297 Marshfield Ave., Chicago.
- Young, James Aurelius, M.D., Rankin.
- Xelowski, Thaddeus Z., Ph.G., M.D., 634 N. Rockwell St., Chicago.





THE SCHOOL OF PHARMACY BUILDING

ALUMNI OF UNIVERSITY OF ILLINOIS SCHOOL OF  
PHARMACY—CHICAGO COLLEGE OF PHARMACY.

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**CLASS OF 1861**

\*Tomboeken, Henry William, Ph.G., M.D. Died at Terre Haute,  
Ind., Feb. 6, 1903.

Whitfield, Thomas, Ph.G., Pharmacist, 280 Wabash Ave., Chicago.

**CLASS OF 1871**

Goodman, Frederick Marion, Ph.G., Professor of Botany and Ma-  
teria Medica, University of Illinois School of Pharmacy, Mc-  
Henry.

**CLASS OF 1873**

Snodgrass, Frank, Ph.G., Pharmacist [Snodgrass Drug Co.], 546  
Main St., Kansas City, Mo.

Vogeler, Adolf Gustaf, Ph.G., 329 Webster Ave., Chicago.

Zimmermann, Charles, Ph.G., Pharmacist, 423 S. Adams St., Peoria.

**CLASS OF 1874**

Ackerman, George H., Ph.G., Pharmacist, 409 S. Western Ave.,  
Chicago.

Buchman, Henry Walter, Ph.G., Real Estate, 3105 State St., Chi-  
cago.

Ford, Charles Mangan, Ph.G., Pharmacist and Editor "Rocky Moun-  
tain Druggist," California Ave. and 15th St., Denver, Colo.

Hogan, Louis C., Ph.G., Pharmacist, with B. S. Cooban, 559 W.  
63rd St., Chicago.

Merz, Frank J., Ph.G., Pharmacist, 527 Belle Plaine Ave., Chicago.

\*Rohrer, Joseph, Ph.G.

Rosenthal, Joseph, Ph.G., Pharmacist, 3300 Cottage Grove Ave.,  
Chicago.

Stahl, Edward L., Ph.G., Physician, 153 Van Buren St., Chicago.

Thompson, Littleton, Ph.G., Physician, Utica.

**CLASS OF 1875**

- Cowdrey, Robert Hall, Ph.G., Manufacturers' Agent, 953 S. Sawyer Ave., Chicago.
- Jacob, Charles William, Ph.G., Pharmacist, 107 Madison St., Oak Park.
- Krusemark, Charles, Ph.G., M.D., Physician, 94 E. 22d St., Chicago.
- \*Martin, Hugo William Conrad, Ph.G., died at Chicago, April 29, 1894.
- Mueller, Philip John, Ph.G.
- Scherer, Andrew, Ph.G., Pharmacist, 383 N. State St., Chicago.
- Smith, Fletcher S., Ph.G., Pharmacist and Physician, Saginaw, Mich.
- Smith, Thomas P., Ph.G.
- Woodson, William F., Ph.G., Pharmacist, 231 Franklin St., Michigan City, Ind.

**CLASS OF 1876**

- Bischoff, Ernst C. F., Ph.G., Pharmacist, 420 Lincoln Ave., Chicago.
- Hammer, Alvin G., Ph.G., Pharmacist, cor E. 6th St. and Grand Ave., Des Moines, Ia.
- Hoyt, George Walter, Ph.G., Stock Ranching, Cheyenne, Wyo.
- \*Kirkley, James M., Ph.G., died at Chicago, 1887.
- Loesch, George H., Ph.G., Pharmacist, 26 Barr St., Fort Wayne, Ind.
- Lovett, LaMotte, Ph.G., Pharmacist, Oak Park.
- \*Mulfinger, John Leonard, Ph.G., M.D., died at Chicago, 1900.
- Thurber, Almon Russel, Ph.G., Pharmacist, Breckenridge, Colo.
- Werner, Frederick Charles, Ph.G., M.D., Physician, Watertown, Wis.
- Wilson, Julius Henry, Ph.G., Pharmacist, 125 22d St., Chicago.

**CLASS OF 1877**

- Arnold, Robert Bruce, Ph.G., Pharmacist, Lake Geneva, Wis.
- Marshall, J. H., Ph.G., Pharmacist, 1325 Nicollet Ave., Minneapolis, Minn.
- \*Somers, Frank Giddings, Ph.G., died at Ft. Scott, Kas., 1902.
- Zahn, Emil Augustus, Ph.G., Pharmacist, with E. Thiele, 63d St. and Lexington Ave., Chicago.

**CLASS OF 1878**

- \*Fleischer, Adolph Theodore, Ph.G., Pharmacist, died at Chicago, Jan. 8, 1904.

\*Golling, Fred J., Ph.G.

Holzschuh, J. J., Ph.G., Pharmacist, with Hoffin-Thompson Drug Co., 101 Washington Ave., S., Minneapolis, Minn.

\*Hundt, William L., Ph.G., died at Sioux City, Ia., 1894.

Lackner, Emil O., Ph.G., Real Estate, 1785 W. 12th St., Chicago.

\*Lewis, Fred M., Ph.G., died at Chicago, Oct. 28, 1902.

Meister, Julius F., Ph.G.

Ohlendorf, William C., Ph.G., Physician, 649 Blue Island Ave., Chicago.

Rahr, Reinhardt, Ph.G., Malster and Brewer, Manitowoc, Wis.

Roos, Bernard L., Ph.G., Pharmacist, 741 Wells St., Chicago.

Schaefer, Otto G., Ph.G., Pharmacist, East Las Vegas, N. M.

Schmeling, Max Franz Paul, Ph.G., Physician, 555 Wells St., Chicago.

Wehrli, Albert C., Ph.G., 174 37th St., Chicago.

Zindler, Paul, Ph.G.

#### CLASS OF 1879

Bechmann, Charles Richard, Ph.G., M.D., Physician, Main and 5th Sts., La Crosse, Wis.

Casey, James, Ph.G., M.D., Physician, 5326 Lexington Ave., Chicago.

Cunradi, Julius, Ph.G., Pharmacist (Cunradi Bros.), 576 Wabash Ave., Chicago.

Elsner, Charles F., Ph.G., Pharmacist, 1061 Milwaukee Ave., Chicago.

Hatterman, Charles, Ph.G., M.D., Physician, 350 W. North Ave., Chicago.

Marti, George, Ph.G., Pharmacist, New Ulm, Minn.

Rhode, Rudolph Ernst, Ph.G., Pharmacist, 504 N. Clark St., Chicago.

Robinson, Hugo, Ph.G., Physician, Albany, Ga.

Rudolphy, John, Ph.G., Pharmacist, 786 W. Lake St., Chicago.

Schmitt, Emil, Ph.G., Pharmacist, Blue Island.

\*Seward, Richard, Ph.G.

Sollitt, Thomas Waite, Ph.G., Pharmacist, 1333 W. Lake St., Chicago.

Thayer, Fred A., Ph.G., Pharmacist, 572 W. Madison St., Chicago.

Vaupell, George H., Ph.G., Pharmacist, Polk and Western Ave., Chicago.

**CLASS OF 1880**

- Coleman, John F., Ph.G., Agent, 238 Belden Ave., Chicago.  
 \*Dickinson, George Elijah, Ph.G., died at Nunda, Sept. 2, 1888.  
 Dunham, William F., Ph.G., Pharmacist, 67 W. Van Buren St., Chicago.  
 Frerksen, Richard Christopher, Ph.G., Pharmacist, 1201 W. North Ave., Chicago.  
 Hotchkiss, Sidney Sherman, Ph.G., Manufacturer, Enterprise Mfg. Co., Columbus, Ohio.  
 Jacobson, August, Ph.G., M.D., Physician, 477 Ogden Ave., Chicago.  
 Nohe, Charles J., Ph.G., Jennings, La.  
 \*Otto, Emil, Ph.G.  
 Pilgrim, Henry C., Ph.G., Department Manager, 5332 Indiana Ave., Chicago.  
 Pearce, William Westrup, Ph.G., Pharmacist and Physician, Waukegan.  
 Schmidt, Frederick Michael, Ph.G., Pharmacist, 1007 Schiller Bldg., Chicago.  
 Secord, Frederick H., Ph.G., 1091 N. Clark St., Chicago.  
 Stolz, Otto G., Ph.G., Pharmacist, Indiana and Rush Sts., Chicago.  
 Sturges, Charles F., Ph.G., Buffalo City, Ark.  
 Thiele, Emil, Ph.G., Pharmacist, 5900 Wentworth Ave., Chicago.  
 Tirrell, Marion Cecilia, Ph.G., Pharmacist, 51st St. and Grand Blvd., Chicago.  
 Voegeli, Frederick, Ph.G., Pharmacist, Fountain City, Wis.  
 Wyckoff, William W., Ph.G., Attorney, York, Neb.

**CLASS OF 1881**

- Conrad, John, Ph.G., Pharmacist, 25 E. 47th St., Chicago.  
 Corke, George L., Ph.G., Pharmacist, with R. L. Wickes, Evanston.  
 Davison, John L. T., Ph.G., M.D., Physician, 100 Michigan St., Pueblo, Colo.  
 Engsberg, Conrad, Ph.G., Pharmacist, Lake Mills, Wis.  
 Gray, Newton, Ph.G., Pharmacist, Elmhurst, Cal.  
 Handtmann, Frederick, Ph.G. (Chicago.)  
 Henkel, Emil F. W., Ph.G., M.D., Physician, 524 Ashland Blvd., Chicago.  
 Jackson, Samuel Henry, Ph.G., Pharmacist, 860 W. Van Buren St., Chicago.  
 Karpen, Adolph, Ph.G., Furniture Manufacturer [S. Karpen & Bros.], 187 Michigan Ave., Chicago.



- \*Knoblauch, Charles, Ph.G., died at Milwaukee, Wis., 1895.  
 Kreyssler, Charles Edward, Ph.G., Pharmacist, 5059 State St., Chicago.  
 Lueder, Fritz, Ph.G., Pharmacist, 511 S. Adams St., Peoria.  
 Leusman, Frederick Augustus, Ph.G., M.D., Physician, 270 E. Huron St., Chicago.  
 \*McCammon, Stanton H., Ph.G., died at Des Moines, Ia., July, 1897.  
 \*McDougall, William G., Ph.G., died at Chicago, 1892.  
 \*McPherson, Edward Kingsford, Ph.G., died at Chicago, February 8, 1894.  
 Manns, Albert George, Ph.G., Ph.D., Chemist, with P. D. Armour & Co., Union Stock Yards, Chicago.  
 Schaeffer, Elmer Eugene, Ph.G.  
 Schaar, Charles L., Ph.G., Accountant, 2800 South Park Ave., Chicago.  
 Shockey, William L., Ph.G., Pharmacist, Cripple Creek, Colo.  
 Schultz, Albert W., Ph.G., Pharmacist, Webster and Sheffield Aves., Chicago.

#### CLASS OF 1882

- Abbott, Frank L., Ph.G., Analytical Chemist, 7714 Hawthorne Ave., Chicago.  
 Bitner, Clayton G., Ph.G., Superintendent, Maywood.  
 Buck, Charles G., Ph.G.  
 \*Burk, A. Fletcher, Ph.G.  
 Carnegie, John F., Ph.G., Pharmacist, 16th St. and Michigan Ave., Chicago.  
 Ehrlicher, Henry M., Ph.G., Pharmacist [Ehrlicher Bros.], 324 Court St., Pekin.  
 Evans, Ernest E., Ph.G., Pharmacist, San José, Cal.  
 Fischer, Oscar Frederick, Ph.G., Pharmacist, 1558 Wabash Ave., Chicago.  
 \*Hartz, George H., Ph.G., died at Aurora, Ill., October 22, 1892.  
 Horn, Edwin A., Ph.G., Pharmacist, 65 Main St., Oshkosh, Wis.  
 \*Justi, William F., Ph.G.  
 Marshall, Charles E., Ph.G., Pharmacist, 3500 Cottage Grove Ave., Chicago.  
 Ohlendorf, Henry L., Ph.G., Pharmacist, 749 Evanston Ave., Chicago.  
 Schartzel, William S., Ph.G.

- Staudt, Louis Carl, Ph.G., Pharmacist [Staudt Bros.], 15 S. Broadway St., Aurora.
- Walther, Charles Lewis, Ph.G., Wholesale Druggist [Walther-Robertson Drug Co.], Allegheny, Pa.
- Walther, Jacob, Jr., Ph.G., Pharmacist, 658 W. Polk St., Chicago.
- Whitfield, George W., Ph.G., M.D., Physician, Room 950, 215 Wabash Ave., Chicago.
- Wunderle, Emil Louis, Ph.G., Pharmacist, 278 Wells St., Chicago.
- Zimmermann, Ernst, Ph.G., Pharmacist, Roanoke.
- Zimmermann, Eugene, Ph.G., Phonograph Agent, 320 S. Adams St., Peoria.

#### CLASS OF 1883

- Armbrecht, Louis, Ph.G., Pharmacist, 723 W. Lake St., Chicago.
- Behrens, Paul Johannes, Ph.G., Pharmacist, 727 Grand Ave., Chicago.
- Cody, William J., Ph.G., Pharmacist, Watertown, Wis.
- Grieb, Frank, Ph.G., Pharmacist, 845 Racine Ave., Milwaukee, Wis.
- Grube, Charles H., Ph.G., Pharmacist, Robinson.
- \*Haberer, Otto J., Ph.G., died at Chicago, December 25, 1898.
- Huston, James T., Ph.G., Pharmacist, 200 5th Ave., Clinton, Ia.
- Krouskup, Walter H., Ph.G., Pharmacist, 3658 State St., Chicago.
- Leonard, Frank Rollin, Ph.G. [Klondike].
- Lydston, James Allen, Ph.G., M.D., Physician, Room 1001, 92 State St., Chicago.
- Mayr, Julius, Ph.G., Clerk, 91 N. 51st Court, Chicago.
- Miexsell, Horace, Ph.G.
- Moore, William B., Ph.G., Manufacturer, Room 18, 106 Franklin St., Chicago.
- \*Murphy, Frank R., Ph.G.
- Parker, Frederick M., Ph.G., Pharmacist, 225 Bush St., Red Wing, Minn.
- Pollock, Charles E., Ph.G., Pharmacist, 18th and North Sts., Columbus, Neb.
- Rahte, Richard S., Ph.G., retired, Bailey's, Colo.
- Russell, Dennis P., Ph.G., M.D., Physician, 1410 Jackson Blvd., Chicago.
- Schulz, Ferdinand M., Ph.G., M.D., Physician, 16th and Fond du Lac Ave., Milwaukee, Wis.
- Sedgwick, Willis L., Ph.G., Pharmacist, Sioux City, Ia.
- Siniger, William, Ph.G., Pharmacist, Galena.

- Spaeth, Gus. C., Ph.G., Pharmacist, Dunsmuir, Cal.  
 Starr, George F., Ph.G., Pharmacist, 95 Evanston Ave., Chicago.  
 Vaupell, William R., Ph.G., M.D., Pharmacist and Physician, 1560  
 Jackson Blvd., Chicago.  
 Wiese, Adolph G., Ph.G., Pharmacist, 729 S. Halsted St., Chicago.  
 Wilkinson, John Fort, Ph.G., Pharmacist, Lansing, Mich.

#### CLASS OF 1884

- Adams, Joseph W., Ph.G., Pharmacist, Mason City, Ia.  
 Ahlborn, Frank Henry, Ph.G., Pharmacist, 395 Wells St., Chicago.  
 Albers, William W., Ph.G., Pharmacist, Wausau, Wis.  
 Angear, William J. S., Ph.G., Pharmacist, Chicago Heights.  
 Arnold, Clifton S., Ph.G., Pharmacist [C. S. & H. C. Arnold], Waukesha, Wis.  
 Baker, George R., Ph.G., Pharmacist [Ashland Block Pharmacy],  
 Clark and Randolph Sts., Chicago.  
 Bischoff, Henry A., Ph.G., M.D., Physician, 747 S. Halsted St.,  
 Chicago.  
 Brown, Abraham, Ph.G., Pharmacist, 630 Grand Ave., Milwaukee,  
 Wis.  
 Butler, Frank A., Ph.G., M.D., Physician, 70 E. Madison St., Chi-  
 cago.  
 Carlsson, Eben, Ph.G., Registrar of Deeds, McPherson, Kas.  
 Carter, Henry W., Ph.G., Pharmacist, Rock Island.  
 Congdon, George C., Ph.G., Bank Cashier, Beaver Dam, Wis.  
 Culver, George H., Ph.G., Breeder, 331 41st St., Chicago.  
 Cummings, Melvin S., Ph.G.  
 Finley, Cyrus P., Ph.G., Commission Merchant, 712 Commercial  
 Building, St. Louis, Mo.  
 Fish, Edward Lincoln, Ph.G., Pharmacist, Sheridan, Wyo.  
 Foster, Edward E., Ph.G., Pharmacist, 1369 W. Madison St., Chi-  
 cago.  
 Foster, Frank S., Ph.G., Pharmacist, Beloit, Wis.  
 Franken, James Latines, Ph.G., Pharmacist [Druehl & Franken],  
 3d and Main Sts., Salt Lake City, Utah.  
 Freund, Anton Philipp, Ph.G., Pharmacist, 952 Armitage Ave., Chi-  
 cago.  
 Gatton, William R., Ph.G., Pharmacist, Galesburg.  
 Hand, Oliver H., Ph.G., Pharmacist, 4835 Langley Ave., Chicago.  
 Hatterman, Charles F., Ph.G., Pharmacist, 795 Columbus Ave., Cor.  
 99th St., New York City.

- Hildebrand, John J., Ph.G., Pharmacist, Toluca.  
 Hughes, William J., Ph.G. [Omaha, Neb.]  
 Irving, William F., Ph.G.  
 Johnson, Edward F., Ph.G., Pharmacist, Gilroy, Cal.  
 Johnson, John B., Ph.G. (257 Austin Ave., Chicago.)  
 Kennedy, Craige C., Ph.G., Pharmacist, Hinckley.  
 \*Kiessling, John C., Ph.G., died at Chicago May 21, 1901.  
 Kleene, Frederick R. C., Ph.G., M.D., Pharmacist and Physician, 318  
 Milwaukee Ave., Chicago.  
 Knevitt, William H., Ph.G., Pharmacist and Physician, Rutherford,  
 New Jersey.  
 Metz, Robert, Ph.G., Pharmacist, with Jno. Metz, Lena.  
 Mills, George P., Ph.G., Pharmacist, 1000 Davis St., Evanston.  
 Murphy, Eugene Don, Ph.G., Salesman, 6026 Drexel Ave., Chicago.  
 Peyton, Gilbert S., Ph.G., Mining, Salt Lake City, Utah.  
 Roos, Theodore, Ph.G., with Ed. Roos Mnfg. Co., 16th and Fisk Sts.,  
 Chicago.  
 Ross, Charles Kulp, Ph.G., Pharmacist, Tipton, Ia.  
 Schimeck, Joseph I., Ph.G., Pharmacist, 547 Blue Island Ave., Chi-  
 cago.  
 Schmidt, Joseph H., Ph.G., Pharmacist, 2402 Cuming St., Omaha,  
 Neb.  
 \*Schreuber, Adolph E., Ph.G., died at Sauk Rapids, Minn., 1887.  
 Schreiner, Albert, Ph.G., Pharmacist, 1495 Newport Ave., Chicago.  
 Thies, Arnold, Ph.G., Pharmacist, with Hiatt Brothers, Wheaton,  
 Ill.  
 Thoma, Henry F., Ph.G., Pharmacist, 1932 Archer Ave., Chicago.  
 Thompson, L. M., Ph.G. [Chicago.]  
 Trowbridge, Charles Henry, Ph.G., Pharmacist, Viroqua, Wis.  
 Vanderpoel, Cornelius, Ph.G., Pharmacist Cook County Hospital,  
 Chicago.  
 Waldin, Reinhold, Ph.G.  
 Walsh, Henry H., Ph.G., Pharmacist, Lockport.  
 Webster, Cyrus A., Ph.G., Pharmacist, Canton.  
 Weil, Albert, Ph.G., M.D., Physician, 424 Woolner Bldg., Peoria.  
 Wernicke, Oscar G., Ph.G., M.D., Physician, 258 Loomis St., Chi-  
 cago.  
 Wiese, Charles Henry, Ph.G. (Menominee Falls, Wis.)  
 Wolfner, Eli R., Ph.G., Pharmacist, 351 S. Clark St., Chicago.  
 \*Ziepprecht, Conrad Henry, Ph.G.  
 Zimmermann, Robert, Ph.G., Pharmacist, 423 S. Adams St., Peoria.

## CLASS OF 1885

- Aldenhoven, Carl Herbert, Ph.G., M.D., Physician, Gonzales, Tex.  
Baer, Almen W., Ph.G., M.D., Physician, 403 Security Bldg., Chicago.  
Barwig, George Blanchard, Ph.G., Pharmacist, 3659 S. Halsted St., Chicago.  
Bauman, George Edward, Ph.G., Pharmacist [G. E. & Chas. Bauman], Springfield.  
Becker, Edward Lee, Ph.G., Manager, 4530 Prairie Ave., Chicago.  
Benson, Fremont Webster, Ph.G., Pharmacist, Tallapoosa, Ga.  
Betting, Oscar S., Ph.G., Pharmacist, 168 S. Halsted St., Chicago.  
\*Blodgett, Charles, Ph.G.  
Boalch, George W., Ph.G., Pharmacist, 722 Lincoln Ave., Chicago.  
Bogan, Peter Robert, Ph.G., Pharmacist [Bogan Bros.], Mackinac Island, Mich.  
Brabrook, Walter A., Ph.G., Pharmacist, 296 Ogden Ave., Chicago.  
Brown, Horace H., Ph.G., Pharmacist, Joliet.  
Collins, Albert, Ph.G., Pharmacist, Santa Fe, New Mexico.  
Falkenberg, Frank E., Ph.G., Pharmacist, 688 W. Chicago Ave., Chicago.  
Fitzsimon, John T., Ph.G., M.D., Physician, Castroville, Tex.  
Frohn, John Brandt, Ph.G., Salesman, 1239 N. Marshfield Ave., Chicago.  
Galloway, David Henry, Ph.G., M.D., Physician, 206 Oakwood Blvd., Chicago.  
Gmelich, Ludwig Friedrich, Ph.G., Pharmacist, with C. M. Weinberger, 219 Wells St., Chicago.  
Grimm, Henry Philip, Ph.G., Pharmacist, 83 Fox St., Aurora.  
Hartwig, Otto Julius, Ph.G., Pharmacist, 1570 Milwaukee Ave., Chicago.  
Hays, John Sneed, Ph.G., Pharmacist, Macomb.  
Herman, George K., Ph.G., Physician, 96 LaSalle St., Chicago.  
Heylman, Charles J., Ph.G., M.D., Physician, 289 Webster Ave., Chicago.  
Hocking, William James, Ph.G., Pharmacist [Hocking Bros.], Wau-paca, Wis.  
Horton, David Snyder, Ph.G., Pharmacist, with Dr. Guinn, Franklin Grove.  
Johnson, Jacob, Ph.G., Pharmacist, with N. Bruun, 282 Grand Ave., Chicago.  
\*Kaun, Frank P., Ph.G.

- Klenze, William Theodore, Ph.G., Pharmacist, 1301 Belmont Ave., Chicago.
- Klucker, Albert C., Ph.G., Pharmacist, 13332 Erie Ave., Chicago.
- Lehman, Louis, Ph.G., Pharmacist, 1229 N. Halsted St., Chicago.
- Lueders, Alfred W., Ph.G., M.D., Physician, Walla Walla, Wash.
- Lynch, John, Ph.G., Pharmacist, 37th St. and Indiana Ave., Chicago.
- McDonald, John A., Ph.G., Pharmacist, Lockport.
- \*McMahon, Adolphus E., Ph.G.
- Mallen, Philip Henry, Ph.G., Pharmacist, 38 Randolph St., Chicago.
- Mares, Frank M., Ph.G. Pharmacist, 2876 Archer Ave., Chicago.
- Mason, William T., Ph.G., Pharmacist, 1373 N. Clark St., Chicago.
- Parnell, B. Frank, Ph.G., Pharmacist, with Public Drug Co., 150 State St., Chicago.
- Parry, Henry Ives, Ph.G., Pharmacist, Mankato, Minn.
- Pearse, Warren, Milton, Ph.G.
- Pfunder, Frederick Henry, Ph.G., Pharmacist, Greenwood, Wis.
- Porter, Edward K., Ph.G., Pharmacist [Prickett & Porter], Carbon-dale.
- Puckner, William August, Ph.G., Professor of Chemistry, University of Illinois School of Pharmacy, 73 Wells St., Chicago.
- Reuter, Louis H., Ph.G., Physician, 1983 W. Madison St., Chicago.
- Robinson, Frederick Talmage, Ph.G., Pharmacist, Genoa.
- \*Russell, A. Lincoln, Ph.G., died at Gifford, 1893.
- Sandmeyer, Louis Adolph, Ph.G., Insurance, Flat 4H, 4705 Lake Ave., Chicago.
- Sauerhering, Edward, Ph.G., Pharmacist, Mayville, Wis.
- Schaefer, Jacob, Ph.G., Pharmacist, 5255 Dearborn St., Chicago.
- Schmid, Ernest A., Ph.G., Pharmacist, 1226 N. Monroe St., Peoria.
- Schreuder, Louis S., Ph.G., Physician, 1209 1st Ave., Seattle, Wash.
- Shean, John R., Ph.G., Pharmacist, 171 Blue Island Ave., Chicago.
- Shumpik, Edward, Ph.G., D.D.S., Dentist, Suite 203-4, 408 M St., Minneapolis, Minn.
- Smail, John M., Ph.G., Pharmacist. (654 W. Van Buren St., Chicago.)
- \*Strail, Edward, Ph.G.
- Stuart, Mack R., Ph.G., Pharmacist (M. R. Stuart & Co.), 80 Dearborn St., Chicago.
- Taylor, William Stanford, Ph.G., Pharmacist, Bryan, O.
- VonRiesen, David, Ph.G., Pharmacist, Halstead, Kas.
- Wermuth, William Charles, Ph.G., M.D., Physician, 282 Bissell St., Chicago.

Winter, Arthur A., Ph.G., Pharmacist, with the Arthur Remedy Co.,  
1137 E. 39th St., Chicago.

Wise, John G., Ph.G., Secretary, The Detroit & Lardeau Gold Mining Co., Detroit, Mich.

Wisshack, George F., Ph.G., Pharmacist, 186 W. Madison St., Chicago.

#### SUMMER CLASS OF 1885

Hurst, Sylvester W., Ph.G., Pharmacist, Tipton, Mo.

#### CLASS OF 1886

Ackermann, Emil, Ph.G., Drug Salesman, 3638 W. 32nd Ave., Denver, Colo.

Agnew, Arotas Irwin, Ph.G., Optician, 211 S. 16th St., Omaha, Neb.

Atkinson, Joseph Howard, Ph.G., Pharmacist, Mason City, Ia.

Bard, Samuel Poet, Ph.G., Pharmacist, 564 W. Polk St., Chicago.

Bardonski, Victor, Ph.G., Pharmacist, 638 Noble St., Chicago.

Bechmann, Otto Christopher, Ph.G., Pharmacist, Cherokee, Ia.

Bedard, George Henry, Ph.G., Pharmacist, La Salle.

Behrendt, Arthur Joseph, Ph.G., Physician, 93 Fowler St., Chicago.

Bell, Jennie Eloise, Ph.G., Pharmacist at Harvey Medical College,  
169 S. Clark St., Chicago.

Boyden, Fred Price, Ph.G., Pharmacist, 1733 Lincoln Ave., Chicago.

Breasted, James Henry, Ph.G.

Breves, Hermann John, Ph.G., Pharmacist, 460 Colorado Ave., Chicago.

Brisley, Harry, Ph.G., Pharmacist, Prescott, Ariz.

Case, Samuel, Ph.G., Pharmacist, Northern Illinois Asylum for the Insane, Elgin.

Chwatal, John J., Ph.G., Pharmacist, 1343 W. 22d St., Chicago.

Clemens, Michael, Ph.G., Pharmacist, Grants Pass, Ore.

Day, Elmer Ellsworth, Ph.G., Sheridan, Ill.

Dietz, Alvin, Ph.G., Pharmacist [John Dietz & Bro.], 3901 Wentworth Ave., Chicago.

Dreier, Otto Albert, Ph.G., Cashier in City Water Office, 13 Plaisance Ct., Chicago.

Dyche, William Andrew, Ph.G., A.M., Business Manager Northwestern University, Evanston, Chicago.

Eckers, John P., Ph.G., Pharmacist, 198 Q St., Salt Lake City, Utah.

Faber, Paul Julius, Ph.G., M.D., Physician, 9, 70 Madison St., Chicago.

- Gardner, Frank Hatch, Ph.G., M.D., Physician, Moline.
- Gazzolo, Frank F., Ph.G., Pharmacist, 3944 Cottage Grove Ave., Chicago.
- Giesler, Otto Augustus, Ph.G., Pharmacist, 763 3rd St., Milwaukee, Wis.
- Glaser, Edward Frederick, Ph.G., M.D., Physician, 717 Jones St., San Francisco, Cal.
- Goetz, Charles, Ph.G., Pharmacist, with C. G. Cushing, Princeton.
- Hall, Edwin, Ph.G., Pharmacist, Elgin.
- \*Heine, George B., Ph.G.
- Hendrie, George Thompson, Ph.G., Pharmacist, A Ave. and 1st St., Snohomish, Wash.
- Hirsch, Charles Henry, Ph.G., Pharmacist, 303 Belmont Ave., Chicago.
- Hoskins, Charles B., Ph.G., Pharmacist, Butte, Mont.
- Kasbaum, Christian J., Ph.G., Pharmacist, 361 Blue Island Ave., Chicago.
- Kendall, L. Wilmer, Ph.G., 439 6th St., Quincy.
- Kirchgasser, William Charles, Ph.G., Chemist, with Fairchild Bros. & Foster, Manufacturing Chemists, Rose & Duane St., New York.
- Kleinman, John H., Ph.G., Pharmacist, at Presbyterian Hospital, 300 S. Wood St., Chicago.
- McConnell, Lewis William, Ph.G., Pharmacist, McCook, Neb.
- Martin, Cyrus Benjamin, Ph.G., Pharmacist, 212 J St., Sacramento, Cal.
- Mehl, Albert Jacob, Ph.G., Pharmacist, 12th St. and Highland Ave., Kansas City, Mo.
- Mell, John A., Ph.G., Pharmacist, 6256 Wentworth Ave., Chicago.
- Miller, Albert, Ph.G., Pharmacist, Lincoln and Garfield Aves., Chicago.
- Mitcham, Oscar J., Ph.G. [Burns, Wis.]
- Morse, James W., Ph.G.
- Mountain, Howard, Ph.G., Pharmacist, 618 Oak St., San Francisco, Cal.
- Peyton, Lacey Edwin, Ph.G., Pharmacist, 2401 Leavenworth St., Omaha, Neb.
- Putnam, Arthur S., Ph.G., Pharmacist, Ypsilanti, Mich.
- Reis, Alphons Markin, Ph.G., Pharmacist, 1072 Lincoln Ave., Chicago.
- Renz, William A., Ph.G., Pharmacist, Ottawa.



- Samson, Frank, Ph.G., Pharmacist [Samson & Lezotte], Osage, Ia.  
 Spiehr, Charles, Ph.G., Pharmacist, 150 Fowler St., Chicago.  
 Steker, Frank Joseph, Ph.G., Pharmacist, 1302 W. Madison St.,  
 Chicago.  
 \*Stewart, Henry K., Ph.G., died at Buffalo, N. Y., Dec. 25, 1897.  
 Vincent, George Isaac, Ph.G., Pharmacist [The Namur-Vincent  
 Co.], 611 W. Walnut St., Des Moines, Ia.  
 Wagner, Christian Henry, Ph.G., Pharmacist, 1410 W. Madison St.,  
 Chicago.  
 Waldron, Vernon X., Ph.G., Pharmacist, 169 Crocker Bldg., San  
 Francisco, Cal.  
 Wallace, Arthur Hervell, Ph.G., Pharmacist, Independence, Ia.  
 Webb, Isaiah D., Ph.G., Pharmacist, 6 Buffalo St., Warsaw, Ind.  
 Weber, Ewald, Ph.G., Pharmacist, 4274 Milwaukee Ave., Chicago.  
 Weis, John, Ph.G., Pharmacist, 1917 Jackson St., Dubuque, Ia.  
 Weiser, E. Halleck, Ph.G., Pharmacist [Green & Weiser], 202 N.  
 State St., Chicago.  
 Wendel, Julius, Ph.G., Pharmacist, 601 W. Garfield Blvd., Chicago.  
 Wickel, William Wallace, Ph.G., Pharmacist, Naperville.  
 Wilson, Lincoln, Ph.G., Pharmacist, Denver, Col.  
 Wirthman, Joseph C., Ph.G., Pharmacist, 18th and Troost Sts.,  
 Kansas City, Mo.  
 Woodruff, George Frank, Ph.G., Chemist, 72 Wabash Ave., Chicago.  
 Zender, Nicholas, Ph.G., Pharmacist, Clay and Madison Sts., Ot-  
 tawa.  
 Zindt, Julius Mathias, Ph.G., Pharmacist, 277 Larrabee St., Chi-  
 cago.

#### SUMMER CLASS OF 1886

- Busse, Fred Henry, Ph.G. [Chicago.]  
 Decker, Henry Theodore, Ph.G., Pharmacist, Knoxville Borough,  
 Pittsburg, Pa.  
 Doolittle, Darwin, Ph.G., Pharmacist, 150 E. 18th St., Chicago.  
 Ellsworth, Lewis, Ph.G., Wheaton.  
 Fischel, Emil, Ph.G., Pharmacist, with Ashland Ave. Pharmacy, 48th  
 St. and Ashland Ave., Chicago.  
 Foster, Charles A., Ph.G., Pharmacist, Gibson City.  
 Franken, Edwin, Ph.G., Pharmacist, Sigourney, Ia.  
 Goetz, Albert, Ph.G., 1540 Dunning St., Chicago.  
 Hanson, Peder Bertram, Ph.G., Pharmacist [Hanson & Emerson],  
 Sauk Center, Minn.

- Harrington, James E., Ph.G., Pharmacist, Sycamore.  
 Jay, George, Ph.G., Pharmacist, Shenandoah, Ia.  
 Keim, Asher D., Ph.G., Pharmacist, Bethlehem, Pa.  
 Kellogg, King G., Ph.G., Chemist, 291 43d St., Chicago.  
 Kotz, Louis Philip, Ph.G., Pharmacist, Kankakee.  
 Kilner, Edward Russell, Ph.G., Mattoon.  
 McVicker, William Byron, Ph.G., 122 Liberty St., New York City.  
 Mai, Herman, Ph.G., M.D., Physician, 208 E. North Ave., Chicago.  
 Nitzche, John Charles, Ph.G., Pharmacist, with D. N. Loose & Co.,  
 Maquoketa, Ia.  
 Pitts, Augustus Dennis, Ph.G., Pharmacist and Physician, Point  
 Arena, Cal.  
 Renner, Julius A., Ph.G., Pharmacist, with Frederick Klein, 323 W.  
 Madison St., Chicago.  
 Rometch, Frederick August, Ph.G.  
 Rummel, Thomas Corwin, Ph.G., Pharmacist, Lucas, O.  
 Seely, Charles Adams, Ph.G., Pharmacist, 520 Beech St., Petosky,  
 Mich.  
 Springer, Charles B., Ph.G., Pharmacist, Pocahontas.  
 Stannard, S. Grant, Ph.G., Pharmacist, 51st St. and Lake Ave.,  
 Chicago.  
 Thiele, Ernest J., Ph.G., Salesman, with Humiston, Keeling & Co.,  
 wholesale druggists, 200 Madison St., Chicago.  
 Thompson, A. Eugene, Ph.G., Pharmacist, 682 W. Division St., Chi-  
 cago.  
 VanGorder, George L., Ph.G. [Argentine Republic.]  
 Voge, Richard, Ph.G., Pharmacist, 1506 Ogden Ave., Chicago.  
 Warhanik, Emil Mattias, Ph.G., Pharmacist, 989 W. 22d St., Chi-  
 cago.  
 Warnick, John F., Ph.G., Pharmacist [J. B. Warnick & Sons],  
 Franklin Grove.  
 Wieneke, Frederick B., Ph.G., 9005 Commercial Ave., Chicago.

#### CLASS OF 1887

- Boswell, Charles Thomas, Ph.G., Pharmacist, Rockford.  
 Bradley, Milton Maddox, Ph.G., Pharmacist, Chatham.  
 \*Braun, Rudolph P., Ph.G., died at Chicago, Sept. 20, 1900.  
 Brennan, William Francis, Ph.G.  
 \*Brown, Benjamin Franklin, Ph.G.  
 Brundage, Edwin Wesley, Ph.G.  
 \*Caron, Edward Louis, Ph.G.

- Christian, William Wickham, Ph.G., Pharmacist, Chicago, O.  
Cunradi, Charles, Ph.G., Pharmacist [Cunradi Bros.], 53 State St., Chicago.  
Featherston, Edward B., Ph.G., M.D., Pharmacist and Physician, 3593 N. Clark St., Chicago.  
Fry, Herman, Ph.G., Pharmacist, 266 North Ave., Chicago.  
Gamm, Charles A., Ph.G., Pharmacist, 103 Main St., Watertown, Wis.  
Gapen, Charles Lincoln, Ph.G., Pharmacist (T. E. Gapen & Son), Ottawa.  
Goltz, Max Arnold, Ph.G., Pharmacist, 272 E. 3rd St., Winona, Minn.  
\*Goosen, Henry Frederick, Ph.G., died at Chicago, Aug. 23, 1899.  
Karg, George, Ph.G., Pharmacist, with Herman Fry, 266 E. North Ave., Chicago.  
Kelly, Clifford Davis, Ph.G., Vice-President Greiner-Kelly Drug Co., Wholesale Druggists, Sherman, Texas.  
Kneussl, Gustave, Ph.G., Pharmacist, Ottawa.  
Long, Abram F., Ph.G., Pharmacist, Rensselaer, Ind.  
Lund, Frank Christian, Ph.G. [1317 Milwaukee Ave., Chicago.]  
Mason, Frank G., Ph.G., M.D., Physician, 163 State St., Chicago.  
Merz, Richard, Ph.G., Pharmacist, with E. H. Sargent & Co., 30 E. Washington St., Chicago.  
Meyers, Charles A., Ph.G., Clerk, Kinzie and Orleans Sts., Chicago.  
Patchen, Charles R., Ph.G., Pharmacist, Huntley.  
Pearson, William Francis, Ph.G., Clerk, 228 31st St., Chicago.  
Peterson, Constant U., Ph.G., Pharmacist, Joliet.  
Riegel, Edward, Ph.G.  
Ross, Finley, Ph.G., Pharmacist, Webster, S. Dak.  
Schneider, Henry, Ph.G. (5944 Eggleston Ave., Chicago.)  
Senn, Thomas C., Ph.G., Student, Harvey Medical College, Chicago.  
Seville, Fred Ferdinand, Ph.G., M. D., Physician, 1573 Madison St., Chicago.  
Smith, William Lawson, Ph.G., Pharmacist, City Salesman, Peter Van Schaack & Sons, 138 Lake St., Chicago.  
Sollitt, Edgar Gloster, Ph.G., Manager, 144 N. Kedzie Ave., Chicago.  
Thomas, Frank, Ph.G., Pharmacist, 301 28th St., Cairo.  
Tredway, Owen Richard, Ph.G., Pharmacist, Casenovia, Mich.

Venn, August Andrew Emil, Ph.G., M.D., Physician, 209 Lincoln Ave., Chicago.

VonHermann, Hugo Charles, Ph.G., Pharmacist, Lexington Hotel Pharmacy, 22nd and Michigan Ave., Chicago.

Weihe, Henry W., Ph.G., Chemist, 3147 N. Ashland Ave., Chicago.

Whalin, Oscar D., Ph.G., M.D., Physician, 1301 Monadnock Bldg., Chicago.

White, John Wilmot, Ph.G., Pharmacist, with Stewart & Halmer Drug Company, Seattle, Wash.

\*Whitley, Christopher, Ph.G.

\*Xelowski, John Henry, Ph.G., M.D., died at Decatur, Jan. 16th, 1903.

York, Morris Allen, Ph.G., Pharmacist, Glasgow.

Zimmermann, Albert, Ph.G., Pharmacist, 2113 S. Adams St., Peoria.

#### SUMMER CLASS OF 1887

Boddiger, Charles Edwin, Ph.G., M.D., Physician, 2801 Archer Ave., Chicago.

Boe, Alfred Nels, Ph.G., Pharmacist, 845 Sheffield Ave., Chicago.

Brinkman, Louis, Ph.G., Pharmacist, with H. A. Brinkman, Warsaw.

Cunradi, Herman R., Ph.G., Pharmacist, 576 Wabash Ave., Chicago.

Doerrlamm, Otto, Ph.G. [1086 Milwaukee Ave., Chicago.]

Hiss, Andrew Emil, Ph.G., Pharmacist, 3100 Wentworth Ave., Chicago.

Jewell, William M., Ph.G., Secretary, O. H. Jewell Filter Co., 40 W. Quincy St., Chicago.

Kaufmann, Emma, Ph.G., Pharmacist, 285 Lincoln Ave., Chicago.

Lapp, Charles James, Ph.G., Pharmacist, 86 Orchard St., Newark, N. J.

Oliver, Florence M., Ph.G., Pharmacist, 10249 Union Ave., Chicago.

\*Slater, Samuel A., Ph.G.

Smith, Charles Francis, Ph.G., Pharmacist, 424 Stewart Ave., Kansas City, Kas.

Stephens, Frank Burrows, Ph.G., Pharmacist, 1000 Washington St., Toledo, O.

Thomas, James Arthur, Ph.G., Pharmacist, 138 Wells St., Chicago.

## CLASS OF 1888

- Breunert, Herman O., Ph.G., Pharmacist, with A. Breunert, 14th and Grand Ave., Kansas City, Mo.
- Brooke, Albert Henry, Ph.G., Pharmacist, Beaver Crossing, Neb.
- Buchholtz, William Herman, Ph.G., Pharmacist, Duluth, Minn.
- Carpenter, William James, Ph.G., Pharmacist. [Bucknan & Carpenter.] Warren.
- Chapman, Chauncey Franklin, Ph.G., M.D., Physician, 940 W. Madison St., Chicago.
- Charters, James Wisson, Ph.G., Pharmacist, Oregon.
- Clark, Harry A., Ph.G.
- Coppock, Aldus L., Ph.G., Pharmacist, 1800 Barry Ave., Chicago.
- Cunningham, John Richard, Ph.G., M.D., Physician, 5101 S. Halsted St., Chicago.
- Dallas, John Cooper, Ph.G., Pharmacist, Temple, Tex.
- Delfosse, Joseph Theophile, Ph.G., Pharmacist [Dinet & Delfosse], 902, 103 State St., Chicago.
- Dinet, Henry George, Ph.G., Pharmacist [Dinet & Delfosse], Room 902, No. 103 State St., Chicago.
- \*Doolittle, William E., Ph.G., died at Chicago, June 30, 1890.
- Erb, Elmer L., Ph.G., Pharmacist, Tremont, Ill.
- Felter, Edward, Ph.G., M.D., Physician, Plymouth, Wis.
- Gorder, Christian, Ph.G., Pharmacist, with A. Bellerue, 129 3rd St., LaCrosse, Wis.
- Grubb, Joseph Elmer, Ph.G., Pharmacist, 118 53d St., Chicago.
- Hartz, Peter G., Ph.G., Pharmacist [Bevier & Hartz], 12 S. Broadway, Aurora.
- Healey, Edward Joseph, Ph.G., Pharmacist, Webster Ave., Cor. Halsted St., Chicago.
- Hibben, Heron Kevan, Ph.G., with Hibben-Hill Boiler Works, 9376 Ewing Ave., Chicago.
- Holland, William Ernest, Ph.G., M.D., Physician, 5523 Madison Ave., Chicago.
- \*Hunt, Charles M., Ph.G.
- Kneer, John, Jr., Ph.G., Pharmacist, 801 S. Adams St., Peoria.
- Knoblauch, George Albert, Ph.G., Pharmacist, 1510 W. Lake St., Chicago.
- Kolb, Philip Jacob, Ph.G., Pharmacist [Kolb & Kahn], Clybourn and Fullerton Aves, Chicago.
- Kurth, Henry W., Ph.G., Pharmacist, with M. C. Knapp, 3658 Wentworth Ave., Chicago.

- Lambeck, Herman, Ph.G., Pharmacist, 35th and St. Paul Ave., Milwaukee, Wis.
- Lane, Allen V., Ph.G., Pharmacist, 1201 Wabash Ave., Chicago.
- Light, Isam M., Ph.G., Pharmacist, 143 35th St., Chicago.
- McGee, William E., Ph.G.
- Matkin, John Isaac, Ph.G., Pharmacist [Matkin Bros.], 106 43d St., Chicago.
- Matthews, Henry F., Ph.G.
- \*Melton, Charles W., Ph.G.
- Merrell, Benjamin D., Ph.G., Pharmacist, Superior, Wis.
- Moss, Monroe T., Ph.G., Pharmacist, 4258 Cottage Grove Ave., Chicago.
- Muehlmann, Carl George, Ph.G., M.D., Physician, Pekin.
- Niemeyer, Henry, Ph.G., Pharmacist, Stockton.
- Pfleger, George G., Ph.G., Salesman, 81 Pine St., Chicago.
- Quinn, William A., Ph.G., M.D., Physician, 100 State St., Chicago.
- Robertson, William C., Ph.G., Pharmacist, with Robinson-Pettet Co., 528 W. Main St., Louisville, Ky.
- Sheppard, William Brandon, Ph.G., Pharmacist [Sheppard & Becker], Mattoon.
- \*Springer, Karl Reinhold, Ph.G.
- Studness, Edward T., Ph.G., Pharmacist, 40 E. 2nd St. S., Salt Lake City, Utah.
- VanPelt, Frank Stanley, Ph.G., Pharmacist, Webb City, Mo.
- Whaley, Lawrence, Ph.G., Pharmacist, with M. N. Porter & Co., 3900 Indiana Ave., Chicago.
- Wilson, Clayton William, Ph.G., Pharmacist, Kingsley, Ia.

#### SUMMER CLASS OF 1888

- Barrett, William Craig, Ph.G., Pharmacist, 95 Lake St., Chicago.
- Beck, John Charles, Ph.G., M.D., Physician, 118 Oak St., Chicago.
- Bell, Robert McPherson, Ph.G., Pharmacist, La Crosse, Wis.
- Brenton, Theodore M., Ph.G., Pharmacist, Osgood, Ind.
- Cauwenbergh, Joseph, Ph.G., Pharmacist [Cauwenbergh Bros.], Green Bay, Wis.
- DeGough, John Albert, Ph.G., Pharmacist, Terrell, Tex.
- Dunkel, Martha, Ph.G. (Mrs. Fred Rudolphy), 1632 Melrose St., Chicago.
- Ertel, Anthony, Ph.G., Pharmacist, with G. B. Cabeen, 436 Jackson Ave., Long Island City, N. Y.
- Farrar, George B., Ph.G., Pharmacist, 987 Ogden Ave., Chicago.

- Fordham, Watson W., Ph.G., Pharmacist, Spokane, Wash.  
 Geisse, Charles F. W., Ph.G., Salesman, with Peter Van Schaack & Sons, Fon du Lac, Wis.  
 Greiner, William Edward, Ph.G., President, Greiner-Kelly Drug Co., Wholesale Druggists, Sherman, Texas.  
 Hildebrandt, Fred H., Ph.G., Pharmacist, Durand, Wis.  
 Hovey, Will Cleveland, Ph.G., Pharmacist, with E. H. Sargent & Co., 143 E. Lake St., Chicago.  
 Kennedy, Frederick Peter, Ph.G., 55th and State Sts., Chicago.  
 Kennedy, James Grattan, Ph.G.  
 Kneussl, Maxmilian, Jr., Ph.G., Pharmacist [Kneussl Bros.], Ottawa.  
 Luckenbach, Wilhelm, Ph.G., Pharmacist, Green Bay, Wis.  
 Meyer, Walter Ferdinand, Ph.G., Pharmacist, Colorado City, Colo.  
 Moellering, Charles Benjamin, Ph.G., Pharmacist, Lafayette and Lewis Sts., Fort Wayne, Ind.  
 Moore, Orlando Sentillion, Ph.G., Pharmacist (Moore & Hall), Olds, Alta, Canada.  
 Pelek, Louis John, Ph.G., Pharmacist, Rochelle.  
 Penberthy, Edward, Ph.G., Pharmacist, Blue Island.  
 Pigall, Joseph Smith, Ph.G., M.D., Physician, 987 Ogden Ave., Chicago.  
 Salter, Allen, Ph.G., M.D., Physician, Lena.  
 Sanders, Thomas William, Ph.G., Pharmacist, Aurora.  
 Schoenike, Edward Benjamin, Ph.G., Pharmacist, 396 6th Ave., Milwaukee, Wis.  
 \*Schoke, John, Ph.G., died at Chicago, Nov. 11, 1901.  
 \*Schott, William Joseph, Ph.G., died at Chicago, 1893.  
 Smith, Frank, Ph.G., Pharmacist, Washington, Ind.  
 Upson, Eugene S., Ph.G., Postmaster, Durand, Mich.  
 White, William James, Ph.G., Pharmacist, Goldendale, Wash.  
 Wintersteen, Lambert Soule, Ph.G., Pharmacist, Lyons.

#### CLASS OF 1889

- Armistead, Thomas Darden, Ph.G., Pharmacist, Hopkinsville, Ky.  
 Becker, Louis Alexander, Ph.G., Soda Fountain Manufacturer [L. A. Becker Co.], 96 Franklin St., Chicago.  
 Brown, C. Kirby, Ph.G., Pharmacist, 8 Eagle St., Buffalo, N. Y.  
 Converse, William Adelbert, Ph.G., Chemist, with Dearborn Drug & Chemical Co., 29-33 Rialto Bldg., Chicago.

- Cooban, Benjamin Slater, Ph.G., Pharmacist, 559 W. 63d St., Chicago.
- Cooling, Harry E., Ph.G., Pharmacist [The Traill & Cooling Co.], Austin.
- \*Curti, Richard Felix, Ph.G., died at Chicago, Dec. 17, 1897.
- Czerwinski, Albert Hyacinth, Ph.G., Pharmacist, 461 Mitchell St., Milwaukee, Wis.
- Doolittle, David Drysdale, Ph.G., Pharmacist, Sabetha, Kas.
- Engsberg, William August, Ph.G., Physician, Lake Mills, Wis.
- Eves, Lincoln Lyons, Ph.G., M.D., Pharmacist, with C. C. Eves, Vermilion, S. Dak.
- Faust, William Lawrence, Ph.G., Pharmacist, Central City and Deadwood, S. Dak.
- Garver, Benjamin Franklin, Ph.G., Pharmacist [S. B. Garver & Son], Farmer City.
- Gorton, George Edward, Ph.G., Pharmacist, Crawford, Neb.
- Graham, Edward Louis, Ph.G., Pharmacist, Muscatine, Ia.
- Granacher, Edward Theodore, Ph.G., Pharmacist, with Christie Drug Co., 501 Hampshire St., Quincy.
- Grundy, John David, Ph.G., Pharmacist, Elgin.
- Hamilton, William Reynolds, Jr., Ph.G., Pharmacist, Sibley.
- Hocking, Joseph Finley, Ph.G., Pharmacist [Hocking Drug Co.], Wichita, Kas.
- Johnson, Charles Robert, Ph.G., Pharmacist [Hurlburd & Johnson], Morris, Minn.
- Kline, Charles Grant, Ph.G. (Harriman, Tenn.)
- Lane, John G., Ph.G., Pharmacist [Flat River Pharmacy], Flat River, Mo.
- LeBar, Clarence Roscoe, Ph.G., Westfield, Tex.
- McDonald, Cornelius William, Ph.G., Salesman, with Seabury & Johnson, Aurora.
- McInnerney, Thomas Henry, Ph.G., Pharmacist, with Siegel, Cooper & Co., New York City.
- McKie, James Henry, Ph.G., Pharmacist, Visalia, Cal.
- Matthaei, Ernest August, Ph.G., M.D., Physician, 626 W. Chicago Ave., Chicago.
- Menough, Thomas Franklin, Ph.G., Pharmacist, Brazil, Ind.
- Neeb, John Nicholas, Ph.G., Pharmacist, with Economical Drug Co., 84 State St., Chicago.
- Noster, Alfred H., Ph.G., M.D., Physician, New Braunfels, Tex.
- Reimers, Joseph Henry, Ph.G.



- Rew, George Campbell, Ph.G., B.S., Chemist, with Calumet Baking Powder Co., 38 Michigan Ave., Chicago.
- Richards, Edward Thomas, Ph.G., Pharmacist, 2300 Cottage Grove Ave., Chicago.
- Rogers, Randolph Ruben, Ph.G.
- Ruehl, Harry A., Ph.G., Brewer, 224 W. 12th St., Chicago.
- Sachse, Richard P., Ph.G., Pharmacist, with G. G. Shauer, 2842 State St., Chicago.
- Sayre, Eugene Augustus, Ph.G., Pharmacist, Glendale, O.
- Schmidt, Frederick Otto, Ph.G., Pharmacist, 359 Roscoe Blvd., Chicago.
- Schmidt, Louis Ernest, Ph.G., M.D., Physician, 1003 Schiller Bldg., Chicago.
- Schroeder, Charles W., Ph.G., Pharmacist, Green Bay, Wis.
- Schuh, Julius Paul, Ph.G., Lumber Mnfr., Mobile, Ala.
- Sheppard, Samuel Carter, Ph.G., Pharmacist [Sheppard & Becker], Mattoon.
- Sievers, Rudolph John Emil, Ph.G., M.D., Physician, Butte, Mont.
- Sohrbeck, George William, Ph.G., Pharmacist [Sohrbeck Bros.], Moline.
- \*Stang, Joseph M., Ph.G.
- Valentine, William G., Ph.G., Pharmacist, 3900 Cottage Grove Ave., Chicago.
- Voak, Arthur Byron, Ph.G., Clerk, 122 State St., Chicago.
- Warner, Edward L., Ph.G., Pharmacist, Marlette, Mich.
- Wheeler, Ada G., Ph.G., Pharmacist, with F. A. Wheeler, 924 W. 63d St., Chicago.
- Wikoff, Clarence Powell, Ph.G., M.D., Physician, Emington.
- Williams, Sumner Howe, Ph.G., Pharmacist [Williams & Anderson], Estherville, Ia.
- Woodruff, Harry Wheeler, Ph.G., M.D., Physician, Joliet.

#### SUMMER CLASS OF 1889

- Behrens, Emil Christian Louis, Ph.G., Pharmacist, 807 E. Halsted St., Chicago.
- Bloor, Frank W., Ph.G., Pharmacist [Caldwell & Bloor], Mansfield, O.
- Britell, Dan, Ph.G., Pharmacist, Fulton.
- Broadie, Herbert H., Ph.G., Pharmacist [A. A. Broadie & Bro.], Waverly, Ia.
- Butterworth, Henry Otis, Ph.G., Pharmacist, Maquoketa, Ia.

- Chandler, William DeWitt, Ph.G., 2409 Cedar St., Milwaukee, Wis.  
 Clancy, William John, Ph.G., Pharmacist [Hummer & Clancy],  
 LaSalle.
- Dempster, Frank Delos, Ph.G., Pharmacist, Dixon.
- Dennison, Edward Lyman, Ph.G., M.D., Physician, 117 W. Garfield  
 Blvd., Chicago.
- Dice, Will, Ph.G., Pharmacist, 46 W. Park Ave., Evanston.
- Fyler, Mary Frances, Ph.G., Pharmacist, with L. S. Fyler & Co.,  
 Roscoe.
- Garner, John Percy, Ph.G., Pharmacist, 101 N. Park Ave., Austin.
- \*Harris, William Frederick, Ph.G.
- Heald, Sheldon Augustus, Ph.G. (Kansas City, Mo.)
- Hoey, Frank James, Ph.G., Organizer of Drug Clerks' Association  
 of Illinois, R. 7, 94 Dearborn St., Chicago.
- Huscher, George Albert, Ph.G., Pharmacist, with F. J. Hill Co., 80  
 W. 2nd South St., Salt Lake City, Utah.
- \*Kehner, Charles Christian, Ph.G., died at Chicago, May, 1900.
- Kinyon, Leslie William, Ph.G., Pharmacist, Vail, Ia.
- Lenz, George, Ph.G., Pharmacist, 2901 Wallace St., Chicago.
- Lindemann, Carl Louis, Ph.G., 5658 State St., Chicago.
- Lubbinga, Henry, Ph.G., M.D., Physician, 407, 131 La Salle St.,  
 Chicago.
- McFerson, Grant, Ph.G., Pharmacist, 724 Arapahoe Ave., Boulder,  
 Colo.
- Netz, Richard Herman Gustave, Ph.G., Pharmacist (Netz & Vinton),  
 Owatonna, Minn.
- Parks, Walter W., Ph.G., Pharmacist, Du Quoin.
- Rimmele, Charles H., Ph.G., Pharmacist, with J. T. Lueder, 6859 S.  
 Halsted St., Chicago.
- Storck, William, Ph.G., M.D., Pharmacist, 55th St. and Washington  
 Ave., Chicago.
- Turge, John, Ph.G., Pharmacist, with Max Wirth, 13 W. Superior  
 St., Duluth, Minn.
- Voegeli, Henry, Ph.G., Pharmacist [Voegeli Bros.], 2 Washington  
 Ave. S., Minneapolis, Minn.
- Welch, Leonard Edward, Ph.G., Physician, Albany, Ga.
- Whitley, William Winfrid, Ph.G., Pharmacist, Chatham.
- Williams, Chester Bond, Ph.G., Secretary Chicago Laboratory Sup-  
 ply and Scale Co., 39 W. Randolph St., Chicago.
- Woodfill, John Gabriel, Ph.G. [Philadelphia.]

## CLASS OF 1890

- Adams, Nathaniel Holder, Ph.G., M.D., Physician, 943 W. Madison St., Chicago.
- Albrecht, Charles, Ph.G., M.D., Physician, 748 S. Halsted St., Chicago.
- Anderson, Charles Merritt, Ph.G., Pharmacist, Mt. Etna, Ind.
- Austin, Merchant Ellsworth, Ph.G., Pharmacist, Janesville, Wis.
- Brinkhoff, Carl William, Ph.G., Traveling Salesman, Chicago.
- Bruns, Louis Valentine, Ph.G., Pharmacist, 6658 Wentworth Ave., Chicago.
- Dewey, Seth N., Ph.G., Pharmacist [Pomeroy, Dewey & Co.], 6500 Wentworth Ave., Chicago.
- Druehl, Louis August, Ph.G., Pharmacist, Center and N. Clark Sts., Chicago.
- Ehrlicher, Otto David, Ph.G., Pharmacist [Erlicher Bros.], Pekin.
- Fisk, Bert Erroll, Ph.G., Pharmacist, with F. E. Fisk, 1554 Jackson Blvd., Chicago.
- Fraser, Edward, Ph.G. (Honolulu, T.H.)
- Froeschle, William Frederick, Ph.G., D.D.S., Dentist, 445 N. Clark St., Chicago.
- Fritz, Frank Fred, Ph.G., Pharmacist, Earlville.
- Goldberger, Harry Enoch, Ph.G., M.D., Physician, 868 50th St., Chicago.
- Haring, William Sherwood, Ph.G. (269 E. 64th St., Chicago.)
- Hartke, Emil Alexander, Ph.G., Pharmacist, 401 47th St., Chicago.
- Hazelrigg, Dyar Cobb, Ph.G.
- Heine, Henry, Ph.G., Pharmacist, 746 31st St., Chicago.
- Henssler, Otto William Bernard, Ph.G., M.D., Physician, 729 S. Halsted St., Chicago.
- Heppe, Gustave Conrad, Ph.G., Pharmacist, Delphi, Ind.
- Kellogg, Frank Charles, Ph.G., Pharmacist, Des Moines, Ia.
- Klimmek, Otto, Ph.G., M.D., Physician, 1400, 100 State St., Chicago.
- Knapp, Melville Conkrite, Ph.G., Pharmacist, 3658 Wentworth Ave., Chicago.
- Law, William George, Ph.G., Pharmacist, Savanna.
- Lengacher, Oscar Frederick, Ph.G., Insurance, 174 LaSalle St., Chicago.
- Lowenthal, Oscar, Ph.G., Pharmacist, 12th and Robey Sts., Chicago.

- Marnitz, Louis, Ph.G., Pharmacist, 1756 N. Clark St., Chicago.
- Maurer, Henry Christian, Ph.G., Pharmacist, with Van Horn Drug Co., Leadville, Colo.
- O'Reilly, William Francis, Ph.G., Pharmacist, with McGrath Bros., 500 Main St., Keokuk, Ia.
- Paul, Otto Elijah, Ph.G.
- Rankin, James Sharp, Ph.G., M.D., Physician, De Kalb.
- Rinehart, Harold Marshall, Ph.G., Pharmacist [E. F. Rinehart & Sons], Troy, O.
- Rossmann, Parmer, Ph.G., with L. M. Lovett, Oak Park.
- Schultz, Louis Charles, Ph.G., Pharmacist, Colfax, Wash.
- Sears, John Evangel, Ph.G.
- Smith, Benjamin Robert, Ph.G., Traveling Salesman, with Searle & Hereth Co., 75 Wells St., Chicago.
- Stenicka, Otto Edgar, Ph.G., Pharmacist, 4132 Wentworth Ave., Chicago.
- Stewart, Pughsley Sidney Augustus, Ph.G.
- Stockert, Charles Frederick, Ph.G., M.D., Physician, Nebraska City, Neb.
- Stolte, William Henry, Ph.G., Pharmacist, 463 47th St., Chicago.
- Thayer, Charles Aden, Ph.G., Pharmacist, 1249 W. Madison St., Chicago.
- Timke, Albert, Ph.G., Bailiff, Criminal Court of Cook County, 171 N. Clark St., Chicago.
- \*Tomlinson, Albert Lewis, Ph.G.
- Tuteur, William Benjamin, Ph.G., 3645 Grand Blvd., Chicago.
- Walton, James K., Ph.G., Pharmacist (Henkel & Walton), Cobden.
- Woltze, John, Ph.G., M.D., Pharmacist and Physician, 445 North Ave., Chicago.
- Wuerth, John Jacob, Ph.G., M.D., Physician, 143 35th St., Chicago.
- Zoeller, George, Ph.G., Pharmacist, 467 W. Chicago Ave., Chicago.

#### SUMMER CLASS OF 1890

- Bors, Christian, Ph.G., Pharmacist, Christiana, Norway.
- Brinson, George Robert, Ph.G., Pharmacist, Waycross, Ga.
- Brown, Eugene Howard, Ph.G., Chemist, with Leithead Drug Co., Duluth, Minn.
- Cummings, Mrs. Adeline E. P., Ph.G., Pharmacist, with G. B. Cummings, Highland Park.
- Derge, Paul Arnold, Ph.G., Pharmacist, Anaheim, Cal.
- Eichberg, Fred, Ph.G., Pharmacist, 657 Sedgwick St., Chicago.

- Eymann, Albert Harry, Ph.G., Pharmacist, Warsaw.
- Frank, Nathan Landauer, Ph.G., 56 33rd St., Chicago.
- Greenwood, Thomas Edwin, Ph.G., Salesman, with Bauer & Black, 2708 State St., Milwaukee, Wis.
- Heinemann, Martin, Ph.G., Pharmacist, 211 Webster Ave., Chicago.
- Jones, Frank Hurlburt, Ph.G., Pharmacist, Spring View, Neb.
- \*Kortebein, Lorenz W., Ph.G., died June 1900, at Butte, Mont.
- Larsen, Lars Peter, Ph.G., Pharmacist, 1496 W. Madison St., Chicago.
- Lenz, William, Ph.G., Pharmacist, 2059 38th St., Chicago.
- McKinstry, George Lee, Ph.G., Pharmacist [Kimbrough & McKinstry], Sherman, Tex.
- Nagel, Herman Henry, Ph.G., Pharmacist, 5358 Morgan St., Chicago.
- Nordling, Ernest August, Ph.G., Pharmacist, Lake Forest.
- Paddock, Charles Brewster, Ph.G., Pharmacist, Fresno, Cal.
- Paul, Charles Frederick, Ph.G., Pharmacist, with the Boston Store, 122 State St., Chicago.
- Ramsey, Samuel Virgil, Ph.G., Pharmacist, Seattle, Wash.
- Scherer, Charles Jacob, Ph.G.
- Schumacher, Fred W., Ph.G., Pharmacist, Highland Park.
- Shumway, Walter, Ph.G., Pharmacist, Arlington, Ia.
- Stillman, Harvey A., Ph.G., Pharmacist, Joliet.
- Thomas, George Andrew, Ph.G., Pharmacist, Elkhart, Ind.
- Weber, William, Ph.G., Pharmacist, 2614 Cottage Grove Ave., Chicago.
- Weeks, John Allen, Ph.G., Salesman, 500 Belden Ave., Chicago.
- Weiner, Carl F., Ph.G.

#### CLASS OF 1891

- Blackburn, John Widner, Ph.G., Pharmacist, Corsicana, Tex.
- Bruder, Otto Emil, Ph.G., Pharmacist, Mayville, Wis.
- Burlin, Frank Howard, Ph.G., Pharmacist, Viroqua, Wis.
- Dunavan, Clarence Vincent, Ph.G., Pharmacist, with W. T. Sexton, Pharmacist, Leland.
- \*Dunning, George C., Ph.G.
- Flannery, Herbert F., Ph.G.
- Keats, Arthur Sansom, Ph.G., Pharmacist, Chicago.
- Knappenberger, Clarence A., Ph.G., Pharmacist, LaHarpe.

- McCoy, Robert Harris, Ph.G., Pharmacist, with J. N. McCoy, Kenton, O.
- Mallory, Charles Willitt, Ph.G., Pharmacist, Bryan, O.
- Matthes, W. Henry, Ph.G., Pharmacist, with Auditorium Pharmacy Co., 320 Wabash Ave., Chicago.
- Meade, Clayton Baker, Ph.G., Pharmacist, Berwyn.
- Mosser, Robert, Ph.G., Pharmacist, Palatine.
- Norling, Alfred W., Ph.G., Pharmacist, with P. O., Norling, Galva.
- Plitt, Louis, Ph.G., Pharmacist, with E. M. Bray, 1001 Collins St., Joliet.
- \*Powell, Thomas, Jr., Ph.G.
- Schreiner, George, Ph.G., Pharmacist, 1072 Lincoln Ave., Chicago.
- Scott, Thomas Y., Ph.G., Pharmacist, Springfield.
- Stiller, Otto Henry, Ph.G., Pharmacist, Danville.
- Thiel, Charles Christopher, Ph.G., Pharmacist, 1629 Ogden Ave., Chicago.
- Thorsen, Arthur C., Ph.G., Salesman, with Armour & Co., 205 La Salle St., Chicago.
- Thomas, Frank Ormie, Ph.G., Pharmacist, Emporia, Kas.
- Wagner, Emil John, Ph.G., Pharmacist, 62 E. Perry St., Tiffin, O.

#### SUMMER CLASS OF 1891

- Andrews, Willis Edwin, Ph.G., Pharmacist, LaJunta, Colo.
- Bernard, Edwin Stephen, Ph.G., Pharmacist, 882 W. Taylor St., Chicago.
- Brown, Rush Grant, Ph.G., Pharmacist, Sioux Falls, S. Dak.
- Butt, John Albert, Ph.G., Pharmacist, 271 N. Clark St., Chicago.
- Cain, Horatio E., Ph.G., Pharmacist, 3557 W. 63d St., Chicago.
- Dewitz, Theodore Henry, Ph.G., Pharmacist, 2404 Milwaukee Ave., Chicago.
- Fogas, John Theodore, Ph.G., Pharmacist, 1130 S. Capital Ave., Indianapolis, Ind.
- Garrison, William Hicks, Ph.G., M.D., Pharmacist and Physician, Pearl.
- \*Herker, Roland William, Ph.G.
- Knoche, William Philip, Ph.G., Pharmacist, 6053 S. Halsted St., Chicago.
- Luckenbach, Simon Frank, Ph.G., Pharmacist, Kewaunee, Wis.
- McClanahan, Charles, Ph.G., Pharmacist, Bluff City, Kas.
- McKay, Malcolm, Ph.G., Pharmacist, U. S. Marine Hospital, Wilmington, N. C.

- McKelvey, Wardale Otto, Ph.G., Pharmacist, Orient, Ia.  
 Matthei, Charles August, Ph.G., 5 Gurley St., Chicago.  
 Pinckney, Pitt Pierre, Ph.G., Pharmacist, with Gale & Blocki, 44  
 Monroe St., Chicago.  
 Schembs, Frank Hermann, Ph.G., M.D., Physician, 318 Milwaukee  
 Ave., Chicago.  
 Taylor, William Wallace, Ph.G., Pharmacist [Taylor Bros.], Stevens  
 Point, Wis.  
 Wead, James Scott, Ph.G., M.D., Physician, Wyoming, Ill.  
 Willits, Charles Cushman, Ph.G., Pharmacist, Michigan City, Ind.

#### CLASS OF 1892

- Amphlett, Frederick Joseph, Ph.G., Pharmacist, 6300 Stony Island  
 Ave., Chicago.  
 Angear, Benjamin Howard, Ph.G., M.D., Physician, Sublette, Ill.  
 Burnitt, Frederick George, Ph.G., Salesman, with Meyer Bros. Drug  
 Co. (St. Louis, Mo.), McKinney, Tex.  
 Case, George Edwin, Ph.G., Pharmacist, Princeton.  
 Crawshaw, Herbert Harwood, Ph.G., Pharmacist, 1365 Ogden Ave.,  
 Chicago.  
 Day, William Baker, Ph.G., Professor of Histological Botany, Uni-  
 versity of Illinois School of Pharmacy, 465 State St., Chicago.  
 Graessle, Otto Luther, Ph.G., Pharmacist [Graessle & Koehler], 748  
 W. Chicago Ave., Chicago.  
 Hall, William Warren, Ph.G., Knoxville, Tenn.  
 Harsch, John Hermann, Ph.G., Pharmacist, with F. Lueder, 511 S.  
 Adams St., Peoria.  
 Hartwig, Reinhart William, Ph.G., Pharmacist [Hartwig Bros.],  
 Chicago and Milwaukee Aves., Chicago.  
 Heddens, Claus H., Ph.G., Mngr. for R. Hudnut, 1359, 204 Dearborn  
 St., Chicago.  
 Horn, William Frederick, Ph.G., Pharmacist, with J. E. Grubb, 118  
 53d St., Chicago.  
 Hughes, Harry John, Ph.G., Pharmacist, Beaver Dam, Wis.  
 Hummel, Charles Clarence, Ph.G., M.D., Physician, Dike, Grundy  
 Co., Iowa.  
 Kiessling, Adolph Frederick, Ph.G., Pharmacist, 798 W. Van Buren  
 St., Chicago.  
 Koenig, Charles Frederick, Ph.G., Pharmacist, Arcadia, Wis.  
 Krueger, Berthold Otto, Ph.G., Pharmacist, Cokato, Minn.

McVay, Ernest Avery, Ph.G., Pharmacist [McVay Bros.], 600 W. 79th St., Chicago.

Moffett, Henry M., Ph.G., Pharmacist, 1906 State St., Chicago.

Nystrom, Peter Alfred, Ph.G., Pharmacist, with O. F. Schmidt, 43d St. and Lake Ave., Chicago.

Paul, Arthur Ernest, Ph.G., B.S., Chemist, with Mariner & Hoskins, 81 S. Clark St., Chicago.

Sandmeister, Charles Henry, Ph.G., Pharmacist, Bellevue, O.

Schroeder, Albert William, Ph.G., Pharmacist [Schroeder Bros.], 296 N. Western Ave., Chicago.

Speice, William Koenig, Ph.G., M.D., Physician, 50 W. Madison St., Chicago.

\*Tanke, Ernest Julius Ferdinand, Ph.G.

VanDike, Elba, Ph.G., Pharmacist, with Sale & Sons Drug Co., 214 S. Spring St., Los Angeles, Cal.

Voit, William Smiley, Ph.G., Pharmacist, Warren, O.

Wickert, Paul, Ph.G., Pharmacist, 3032 S. Park Ave., Chicago.

#### CLASS OF 1893

Barber, Andrew Hamilton, Ph.G., Pharmacist, 3333 E. 18th St., Kansas City, Mo.

Bechard, Delore Joseph, Ph.G., Pharmacist, Clyde, Kas.

Bedford, Richard James, Ph.G., M.D., Physician, Dohinda.

Bellack, Bertholdt H., Ph.G., Pharmacist [Bellack Bros.], 284 Lincoln Ave., Chicago.

Cate, Henry Brown, Ph.G., Pharmacist, Menominee, Mich.

\*Chenoweth, John Byrd, Ph.G.

Crowley, James Patrick, Ph.G., Pharmacist, 867 32d St., Chicago.

Dobbratz, Max Christopher, Ph.G., Pharmacist, 1751 Milwaukee Ave., Chicago.

Farris, Benjamin Franklin, Ph.G.

Gage, John Grant, Ph.G., Pharmacist, with the Fair, 527 44th Place, Chicago.

Gazzolo, Frank Henry Serafino, Ph.G., B.S., Wholesale Druggist, Gazzolo Drug & Chemical Co., 86 W. Madison St. (95 Astor St.), Chicago.

Grace, William Emory, Ph.G., Pharmacist, Baker City, Oregon.

Grady, Charles J., Ph.G., Pharmacist, 104 N. Clark St., Chicago.

Heiss, Ernest Joseph, Ph.G., Pharmacist, 736 W. Division St., Chicago.

\*Helm, William Harvey, Ph.G., died at Byron, December 3, 1894.



- Hermansdorfer, August, Ph.G., Pharmacist, Brookville, Ind.
- Herzog, John William, Ph.G., Pharmacist, 45th St. and Cottage Grove Ave., Chicago.
- Hoelzer, Bruno Alfred Christian, Ph.G., Pharmacist, 688 W. North Ave., Chicago.
- Hull, Sherman Grant, Ph.G., Pharmacist, Clinton.
- Irvine, Ephraim Dinsmore, Ph.G., Editor Western Druggist, 358 Dearborn St., Chicago.
- Kaplansky, David, Ph.G., Pharmacist (Kaplansky & Moran), Michigan City, Ind.
- Kleiner, Joseph C., Ph.G., Pharmacist, 2169 Archer Ave., Chicago.
- Klenze, John Edward, Ph.G., Pharmacist, 3rd and Scott Sts., Davenport, Ia.
- Kuhn, John Frederick, Ph.G., M.D., Physician, 336 B St. N. E. Washington, D. C.
- Linn, Frank C., Ph.G., Pharmacist, Roberts.
- \*Logan, Albert Lloyd, Ph.G., died at Hartford City, Ind., Feb. 5, 1904.
- McCracken, Robert Edward, Ph.G., Pharmacist, attending University of Illinois College of Medicine, 706 W. Van Buren St., Chicago.
- Mix, Frank B., Ph.G., Pharmacist, with J. G. Johnson, Traverse City, Mich.
- Pfaffin, Adolph Rudolph, Ph.G., Pharmacist, Main and Virginia Sts., Evansville, Ind.
- Rauth, Frederick William, Ph.G., Pharmacist, with S. Broadwell, Springfield.
- Reuter, Robert, Ph.G., Pharmacist, with Henry Reuter, 40th Ave. and W. Madison St., Chicago.
- Rudnick, Frederick, Ph.G., Student, University of Illinois Medical College, 1605 Milwaukee Ave., Chicago.
- Rudnick, Paul Frederick Augustus, Ph.G., B.S., Chemist, with Armour & Co., 4956 Vincennes Ave., Chicago.
- Schimek, Ignatius Albert, Ph.G., Pharmacist, with J. E. Schimek, 547 Blue Island Ave., Chicago.
- Schmiedeskamp, William Hermann, Ph.G., Pharmacist, Quincy.
- Shean, William Edward, Ph.G., Pharmacist, with John R. Shean, 171 Blue Island Ave., Chicago.
- Snyder, Charles John, Ph.G., Pharmacist [C. J. Snyder & Bros.], 2506 State St., Chicago.
- Steenburg, Wesley Benjamin, Ph.G., M.D.

- Steker, Albert Frederick, Ph.G., Pharmacist, 1331 W. Van Buren St., Chicago.
- Stockton, Lycurgus, Ph.G., Clerk, 1442 Lexington St., Chicago.
- Stolz, Ernest Henry, Ph.G., Pharmacist, 104 N. Clark St., Chicago.
- Struthers, Herbert Rankin, Ph.G., Pharmacist, Kedzie and Ohio Sts., Chicago.
- Stuckey, Alexander Caldwell, Ph.G., Pharmacist, 727 W. 63d St., Chicago.
- Taylor, Olin Ray, Ph.G., Pharmacist, Cresco, Ia.
- Van Nice, James Ora, Ph.G., Pharmacist, 2250 N. Ashland Ave., Chicago.
- Waskow, Otto George, Ph.G., M.D., Physician and Pharmacist [Steinbrecker & Waskow], 36 N. Clark St., Chicago.

#### CLASS OF 1894

- Anderson, James Andrew, Ph.G.
- Behrens, William Benjamin, Ph.G., Pharmacist, with John & W. E. Holland, 268 Madison Ave., Chicago.
- Bodinson, Frederick Perry, Ph.G., Pharmacist, with W. E. Grace, Baker City, Ore.
- Bohn, George Washington, Ph.G., Pharmacist, 801 Canal St., Evansville, Ind.
- Breckwoldt, Leonhard Ornandus, Ph.G., Pharmacist, with E. H. Sargent & Co., 30 E. Washington St., Chicago.
- Breves, Rudolph, Ph.G., Chemist, with the Egyptian Lacquer Mfg. Co., Rahway, N. J.
- Caine, Stonewall Lee, Ph.G., Pharmacist, Secretary, Mississippi Board of Pharmaceutical Examiners, Columbus, Miss.
- Cannon, Thomas Francis, Ph.G., Pharmacist, 190 N. Clark St., Chicago.
- Chladek, Joseph William, Ph.G., Pharmacist [Chladek Bros.], 63rd and Cottage Grove Ave., Chicago.
- Christensen, Adolph Harold, Ph.G., M.D., Physician, California and Milwaukee Aves., Chicago.
- Collins, Rollin Spellman, Ph.G., Pharmacist [Collins Bros.], 1105 Washington St., Oakland, Cal.
- Cook, Charles Christian, Ph.G., Photographer, 170 E. Madison St., Chicago.
- Coolbaugh, Willis Eugene, Ph.G., Cashier, State Bank of Stockton, Stockton, Kas.

- Cress, Charles William, Ph.G., Pharmacist, 5300 Jefferson Ave., Chicago.
- Delfosse, Henry Adolphus, Ph.G., Pharmacist, with Dinet & Delfosse, 903, 103 State St., Chicago.
- Fitch, Elbert Lamont, Ph.G., Pharmacist, Central Valley, N. Y.
- Gross, Henry Ethelbert, Ph.G., Pharmacist, West Side Hospital, Chicago.
- Hallenberg, Oscar, Ph.G., Pharmacist, Fargo, N. Dak.
- Hunsche, Frederick, Ph.G., Chemist, with the Abbott Alkaloidal Co., 1416 E. Ravenswood Park, Chicago.
- Jacobus, Philip, Ph.G., Pharmacist, LaCrosse, Wis.
- Kaczoroski, Adolphus Onesime, Ph.G., Pharmacist, Primo's Pharmacy, Canal and Bourbon Sts., New Orleans, La.
- Krause, Charles Louis, Ph.G., Pharmacist, Herscher.
- Lorenz, Julius Augustus, Ph.G., Pharmacist, 1375 W. Harrison St., Chicago.
- McKenzie, Robert Henry, Ph.G., Pharmacist [McKenzie Bros.], Leadville, Colo.
- \*Nachtway, William Morris, Ph.G.
- \*Neilson, Henry Alexander, Ph.G., died at N. McGregor, Ia., January 23, 1899.
- O'Brian, Roger William, Ph.G., Traveling Salesman, 768 N. Fairfield Ave., Chicago.
- Orth, Godlove Sheriff, Ph.G., Pharmacist, 1980 N. Clark St., Chicago.
- Plice, William Andrew, Ph.G., M.D., Physician and Pharmacist, Polk St. and California Ave., Chicago.
- Rahlf's, George Hermann, Ph.G., Pharmacist, with G. B. Barwig, 3659 S. Halsted St., Chicago.
- Roark, Charles Asbury, Ph.G., Pharmacist, Student, Indiana Medical College, Indianapolis, Ind.
- Rudder, William Hiram, Ph.G., Pharmacist, Salem.
- Schefcik, John Francis, Ph.G., M.D., Physician, Hutchinson, Minn.
- Seward, Frank, Ph.G., Pharmacist, with M. I. Isgrig, Austin.
- Sisson, Oscar U., Ph.G., Pharmacist, 5034 Cottage Grove Ave., Chicago.
- Spiller, Frank Hue, Ph.G., Pharmacist, Gardner.
- Stillman, Charles Leonard, Ph.G., Pharmacist, Columbus, Neb.
- Stuchlik, John, Ph.G., Pharmacist [Stuchlik Bros.], 338 W. 18th St., Chicago.

Stuchlik, William Arthur, Ph.G., Pharmacist [Stuchlik Bros.], 338 W. 18th St., Chicago.

\*Thomas, John E., Ph.G.

Thorburn, Albert David, Ph.G., Chemist, with Searle & Hereth Co., 73-75 Wells St., Chicago.

Trischmann, Albert Emil, Ph.G., Pharmacist, with John Brod Chemical Co., 349 W. North Ave., Chicago.

Weissenborn, Henry Hermann, Ph.G.

Wendt, Ferdinand, Jr., Ph.G., Pharmacist, Juneau, Wis.

Wiley, Guy Aden, Ph.G., Pharmacist, with W. W. Wickel, Naperville.

Wilson, Franklin Samuel, Ph.G., Pharmacist, Taylor St. and Center Ave., Chicago.

Yarndley, Richard Edwin, Ph.G., Musician, 6259 Jefferson Ave., Chicago.

Zobel, Emil Carl, Ph.G., Pharmacist, 1373 Sheffield Ave., Chicago.

#### CLASS OF 1895

Anderson, William Vincent, Ph.G., Pharmacist, Fostoria, O.

Bissel, Frank Anmi, Ph.G., Pharmacist, Colorado Springs, Colo.

Brandon, Henry Lee., Ph.G., Brewer, Leavenworth, Kas.

Braun, Walter Thomas, Ph.G., Pharmacist, 3038 Cottage Grove Ave., Chicago.

Champion, Joseph Liddicoat, Ph.G., Pharmacist, 525 W. Van Buren St., Chicago.

Crell, William Frederick, Ph.G.

Drew, Rupert Chauncey, Ph.G., D.D.S., Dentist, Burlington, Vt.

Ellis, Frank Irving, Ph.G., Pharmacist, 438 S. 40th Ave., Chicago.

\*Engstrom, Otto Francis, Ph.G., died at Chicago, October, 1895.

\*Flavin, Daglon, Ph.G., died at Denver, Colo., 1896.

Gathercoal, Edmund Norris, Ph.G., Pharmacist, Assistant in Pharmacognosy, University of Illinois School of Pharmacy, Wilmette.

Gille, William Sebastian, Ph.G., Pharmacist, with Central Pharmacy, 601 Hampshire St., Quincy.

Greves, John Hans, Ph.G., Pharmacist, With Dr. F. L. Sweany, New York City.

Haschenburger, Edmund Ommen, Ph.G., Pharmacist (Kostka Glass & Paint Co.), 1211 O St., Lincoln, Neb.

Hops, George Albert, Ph.G., Pharmacist, Chenoa.

- Hull, Ralph Wilbur, Ph.G., Pharmacist, 1299 Sheridan Road, Chicago.
- Kinsley, William Henry, Ph.G., Pharmacist, Manistee, Mich.
- Kneer, Theodore Fridolin, Ph.G., Pharmacist, with John Kneer, 801 S. Adams St., Peoria.
- Koehler, Henry Otto, Ph.G., Pharmacist [Graessle & Koehler], 748 W. Chicago Ave., Chicago.
- Lantz, L. Z., Ph.G., Pharmacist, Sycamore, O.
- Leonard, Oliver Blood, Ph.G., Pharmacist, 530 Grand Ave., Chicago.
- Lorch, George, Ph.G., M.D., Pharmacist, Bangor, Wis.
- McCauley, Lorin Quamo, Ph.G., Pharmacist, with E. E. Behlke, 441 State St., Chicago.
- Mattas, Joseph Stephen, Ph.G., Pharmacist, 1540 W. 22d St., Chicago.
- Miller, Albert, Ph.G., Pharmacist, 1364 W. 103d St., Chicago.
- Nebeker, Elbert Ferguson, Ph.G., Student, University of Illinois Medical College, Chicago.
- Nordvi, Alfred Charles, Ph.G., Pharmacist, Waupaca, Wis.
- Ohlman, Julius Wilfrid, Ph.G., Traveling Salesman, with Nelson Baker & Co., Detroit, Mich.
- Peck, George Lewis, Ph.G., Pharmacist, with Aldine Pharmacy, 3700 Cottage Grove Ave., Chicago.
- Powers, David Theophilus, Ph.G., Pharmacist, Knoxville, Tenn.
- Rickfort, Charles Arthur, Ph.G., Pharmacist, Austin.
- Romano, Antonio, Ph.G., Pharmacist, 187 N. Halsted St., Chicago.
- Root, Claude Arthur, Ph.G., Pharmacist, with Whitfield Drug Co., 280 Wabash Ave., Chicago.
- Sandkoetter, Henry Peter, Ph.G., Pharmacist, with W. K. Forsyth, 3100 State St., Chicago.
- Schoening, Walter Henry, Ph.G., D.D.S., Dentist, Honolulu, T. H.
- Schram, David Leo, Ph.G., Physician, 3421 Prairie Ave., Chicago.
- Schwarz, Alfred John, Ph.G.
- Stadelmann, Arthur William, Pharmacist, 69th St. and Ashland Ave., Chicago.
- Stanislaus, Ignatius Valerius Stanley, Ph.G., with Osborn-Colwell Co., Pharmaceutical Chemists, 46 Cleff St., New York City.
- Stebbings, Franklyn Filmore, Ph.G., Pharmacist, Bradley.
- Stewart, James Albert, Ph.G., Polk St. and Ogden Ave., Chicago.
- Striebel, Franklin David, Ph.G., Pharmacist, Michigan and Broadway Sts., South Bend, Ind.

Thomson, James Edwards, Ph.G., Pharmacist, with E. W. Thomson, Delhi, La.

Umenhofer, Adolph, Ph.G., Pharmacist, 259 Webster Ave., Chicago.

Vonckx, John Frank, Ph.G., Chemist, 518 Byron St., Chicago.

Weydell, Knut Albert, Ph.G., Pharmacist, 65th and Cottage Grove Ave., Chicago.

\*Zacharski, William Andrew, Ph.G., died at Chicago, March 5, 1899.

**CLASS OF 1896**

Arndt, Herman Gustave, Ph.G., Pharmacist, with Buck & Rayner, Tacoma Bldg., Chicago.

Berglund, Oscar, Ph.G., Pharmacist, Lindsborg, Kas.

Cole, Frank Henry, Ph.G., Bloomington.

Datin, Ellis Clyde, Ph.G., Pharmacist, 514 47th St., Chicago.

Elich, Herman Louis, Ph.G., Pharmacist (Northwestern Pharmacy), 1218 Milwaukee Ave., Chicago.

Ellis, George Seaver, Ph.G., Pharmacist, with E. W. Wood & Co., Mnfg. Pharmacists, Decatur.

Faris, Melville Arthur, Ph.G., Pharmacist, Bloomington, Ind.

Fellows, Edwin, Ph.G., Pharmacist, with T. W. Sollitt, 1333 W. Lake St., Chicago.

Gillispie, Samuel Tilden, Ph.G., M.D., Physician, Reserve, Kas.

Green, Carl Victor, Ph.G., Ph.C., Pharmacist, 451 Larrabee St., Chicago.

Harstad, Oliver, Ph.G., Dentist, Sioux City, Ia.

Heck, Rudolph Stephen, Ph.G., Pharmacist, with Voegeli Bros., 2d St. and Washington Ave. S., Minneapolis, Minn.

Heinemann, Lucy, Ph.G., Pharmacist, with M. Heinemann, 211 Webster Ave., Chicago.

Herr, Alfred Ernest, Ph.G., Pharmacist, with J. S. Hottinger, 224 Lincoln Ave., Chicago.

Hollander, Herman, Ph.G., Pharmacist [Hollander Bros.], Galena.

Hubbard, Elias Palmer, Ph.G., Pharmacist, with People's Drug Store, Clark and Monroe Sts., Chicago.

Hummel, Joseph Frederick, Ph.G., Pharmacist, Grundy Center, Ia.

Koelle, Otto Charles, Ph.G., Pharmacist, with Scherling & Arnold, Sioux City, Ia.

Krieter, William George, Ph.G., Pharmacist, 887 W. North Ave., Chicago.

- Kurtz, George Emil, Ph.G., Pharmacist, with E. C. Zobel, 1373 Sheffield Ave., Chicago.
- Lauterbach, Rudolph John, Ph.C., Pharmacist, 5458 Wentworth Ave., Chicago.
- Linden, Leo Servatus Joseph, Ph.G., Pharmacist, 94 Johnson St., Chicago.
- Long, Charles Romain, Ph.G., Salesman, with Searle & Hereth Co., Chicago. (Howard Lake, Minn.)
- Lueck, August Albert Ferdinand, Ph.G., Pharmacist, with Spencer Drug Co., Antigo, Wis.
- Mertes, John Adams, Ph.G., Pharmacist, 886 Lincoln Ave., Chicago.
- Moran, Edward Michael, Ph.G., Pharmacist [Kaplansky & Moran], Michigan City, Ind.
- Patten, Edward Stuart, Ph.G., Pharmacist, with E. Patten, Carbondale.
- Riddell, Dell Frank, Ph.G., B.S., Chemist, Waverly, Neb.
- Rowe, Harry Eugene, Ph.G., Pharmacist, with Morahn Bros., Sheridan.
- St. John, Joseph Matthias, Ph.C., Pharmacist, 628 Lake St., Chicago.
- Schlinkman, William, Ph.G., Pharmacist, 900 S. 8th St., Quincy.
- Schreiner, Louis Ignatius, Ph.G., Pharmacist, with Searle & Hereth Co., Manufacturing Chemists, 73 Wells St., Chicago.
- Schultz, Charles Frederick William, Ph.G., Pharmacist, 159 E. Chicago St., Elgin.
- Staman, Ashton, Ph.G., Pharmacist [Wm. Staman & Son], Auburn, Ind.
- Steege, Henry John Louis, Ph.G., Pharmacist, 235 N. Park Ave., Austin.
- Stieber, Francis Gus John, Ph.G., Pharmacist, with J. F. Carnegie, 16th St. and Michigan Ave., Chicago.
- Townsend, Clyde William, Ph.G., Pharmacist, Chihuahua, Mexico.
- \*Weinberger, George Charles, Ph.G., died at Chicago, October, 1897.
- Williams, Robert Edward Lee, Ph.G., Pharmacist, Plumerville, Ark.
- Xelowski, Thaddeus Zigmund, Ph.G., M.D., Physician, 634 N. Rockwell St., Chicago.

## CLASS OF 1897

- Allen, Eugene Daniel, Ph.G., Pharmacist, with J. H. Allen, Marseilles.
- Babb, Alma, Ph.C., Remington, Ind.

- Balensiefer, Otto, Ph.G., Student, University of Illinois Medical College (1801 Wabash Ave.), Chicago.
- Behmer, Otto Theobald Ehrhardt, Ph.G., Pharmacist, 305 Augusta St., Chicago.
- Behrens, Frederick Ferdinand Francis, Ph.G., Pharmacist, 567 S. Western Ave., Chicago.
- Bignold, Wilfrid James, Ph.C., Pharmacist, Howk & Bignold, 22nd and State Sts., Chicago.
- Boudinot, John Eliot, Ph.C., Pharmacist, Danville.
- Boyce, Harry Arthur, Ph.G., Pharmacist, with W. H. Fogas, Mt. Vernon, Ind.
- Buchner, Frederick Edward Albert, Ph.G., M.D.
- Clyde, Albert Eugene, Ph.G., Pharmacist, Glencoe, Ill.
- Dieden, Frank Xavier, Ph.G., Pharmacist, 311 E. North Ave., Chicago.
- Dittman, George Charles, Ph.G., M.D., Physician, 1631 Belmont Ave., Chicago.
- Elliott, Elizabeth, Ph.G., Pharmacist, with Dr. William Elliott, Peotone.
- Fisher, Emil John, Ph.G. [Klondike.]
- Friedgen, Harry Raymond, Ph.G., Pharmacist, with Boswell & Noyes Drug Co., 300 S. Broadway, Los Angeles, Cal.
- Fulghum, Charles Clifford, Ph.G., Pharmacist, Fountain City, Ind.
- Gilbert, Carl Edward, Ph.G., Pharmacist, Big Lake, Minn.
- Harper, Micajah Anderson, Ph.G., Pharmacist, 7032 Stony Island Ave., Chicago.
- Hoch, Charles Frederick, Ph.G.
- Jacobus, Peter William, Ph.G., Pharmacist, 65 Clark St., Chicago.
- Johnson, George Gilmore, Ph.G., Pharmacist, with P. O. Norling, Galva.
- Kampman, Arthur, Ph.C. (Holland.)
- Landau, David, Ph.G., M.D., Physician, 51st St. and Ashland Ave., Chicago.
- Lange, Louis, Ph.G., Pharmacist, with Charles Lange, Lake and Wood Sts., Chicago.
- McGoey, Joseph Aloysius, Ph.G., M.D., Physician, 1073 E. 61st St., Chicago.
- Mark, George Andrew, Ph.G., Pharmacist, 506 Wells St., Chicago.
- Mehrlich, Harry Charles, Ph.G., Pharmacist (Allard & Mehrlich), 375 Northern Ave., Pueblo, Colo.



- Menn, Harry George, Ph.G., Pharmacist, Canton, Mo.
- Mrazek, Leopold Ludwig, Ph.G., Pharmacist, 614 W. 18th St., Chicago.
- Parsons, Edward Charles, Ph.G., Pharmacist, Mandan, N. Dak.
- Pier, Harry James, Ph.G., Pharmacist, Hurley, S. Dak.
- Plautz, Henry Frederick, Ph.G., 731 N. Hoyne Ave., Chicago.
- Porges, Otto, Ph.G., Pharmacist, 43rd St., and Wabash Ave., Chicago.
- Renshaw, Charles Johnson, Ph.C., Clerk, 95 26th St., Chicago.
- Robin, Luba Julia, Ph.C., Pharmacist, with J. Robin, 543 S. Jefferson St., Chicago.
- Schwarz, Hiram, Ph.G., Pharmacist, with Long Acre Pharmacy, 1491 Broadway, New York City.
- Smith, George Irving Washington, Ph.G., Pharmacist, Shelton, Neb.
- Storen, Mark Thomas, Ph.G., Pharmacist, with John R. Porter & Co., Rockford.
- Van Buren, Evert, Ph.G., Pharmacist, with Kickapoo Remedy Co., Chicago.
- Waldron, William Frederick, Ph.G., with F. Haeger, 450 N. Clark St., Chicago.
- Winne, Charles Walter, Ph.C., Student, University of Illinois Medical College, 869 Walnut St., Chicago.
- Wooster, Mortimer Safford, Ph.G., Pharmacist, with F. S. Wooster, 20 W. Main St., Norwalk, O.

## CLASS OF 1898

- Ashmore, Joseph Samuel, Ph.G., Elizabeth.
- Atzel, George William, Ph.G., Pharmacist, 864 Clybourn Ave., Chicago.
- Bakkers, John, Pharmacist, 10901 Michigan Ave., Roseland, Chicago.
- Bauer, Herbert Arthur, Ph.G., Pharmacist [Bauer & O'Neil], Kilbourn, Wis.
- Bowman, William Townzen, Ph.G., Student at University of Illinois Medical College, Chicago.
- Brenner, Bert Lemon, Ph.G., Pharmacist, with A. F. Long, Rensselaer, Ind.
- Clark, Harry Alexander, Ph.G., Pharmacist, with J. J. Dale, Carmi.
- Donaberger, Samuel Bricker, Ph.G., Pharmacist, with A. Scherer, 383 N. State St., Chicago.
- Freeman, Arthur Wardo, Ph.G., Pharmacist, Vermont.

- Harris, Andrew Hope, Ph.G., Pharmacist (Moody & Harris), Parker, S. Dak.
- Herrmann, William Frederick, Ph.G., Pharmacist, with Corbus & Co., LaSalle.
- Holmsted, Alex Sanfred, Ph.G., Pharmacist, with Louis Marnitz, 1756 N. Clark St., Chicago.
- Honens, Hugh Benton, Ph.G., Pharmacist, with A. T. Peirce, 2115 W. Van Buren St., Chicago.
- Huddleston, Clyde Ernest, Ph.G., Pharmacist, Farmer City.
- Jones, Charles Everett, Ph.C., Railway Mail Clerk, Oak Park.
- Kappus, George Jacob, Ph.G., Pharmacist, 1704 W. North Ave., Chicago.
- Kloppenbug, Joseph Robert, Ph.G., Houston, Texas (General Delivery).
- Kops, William Gabriel Joseph, Ph.G., Salesman, with Searle & Hereth Co., 73 Wells St., Chicago.
- Koropp, Ernest August, Ph.G., Pharmacist, with Haas & Tesche, Mendota.
- Lauber, Bohumil, Ph.G., Pharmacist, 1554 W. Jackson Boulevard, Chicago.
- Maier, Bertram, Ph.G., Osteopath, 177 Bissell St., Chicago.
- Mentz, Otto Herman, Ph.G., Pharmacist, with W. T. Klenze, 1301 Belmont Ave., Chicago.
- Moore, Algy Charles, Ph.G., Pharmacist, Kankakee.
- Neverman, Edward Albert Paul, Ph.G., Pharmacist, Evanston.
- Olsen, Egil Thorbjorn, Ph.G., Steward, U. S. Marine Hospital Service, Office of Supervising Surgeon General of Marine Hospital Service, Washington, D. C.
- Rainey, Charles Francis, Ph.G., Pharmacist, Thorpe, Wis.
- Ruhland, Charles Theodore Frederick William, Ph.G., Pharmacist, with R. H. Doederlein, Belmont and Racine Aves., Chicago.
- Schuetz, Ziska Ehrhart, Ph.G., Pharmacist, with Schuetz & Denison, Mendota.
- Schultz, Emil Henry, Ph.G., Pharmacist (Schultz Bros.), Neenah, Wis.
- Siedenbug, Frank, Ph.G., Clerk in Custom House, Chicago.
- Smale, William, Ph.G., Pharmacist, with A. W. Wilson, 438 W. Madison St., Chicago.
- Sobel, Maximilian, Ph.G., Salesman, with Mallinkrodt Chemical Works, R. 213, 56 Fifth Ave., Chicago.
- Stroetzel, William, Ph.G., Pharmacist, 1426 Addison Ave., Chicago.

- Thompson, Charles Reuben, Ph.G. Pharmacist, Grayslake.  
Warhanik, Charles Augustus, Ph.G., Student, North Western University Medical College, 989 W. 22nd St., Chicago.  
Watters, Mark Henry, Ph.G., Steward, U. S. Marine Hospital Service, Hygienic Laboratory, Washington, D. C.  
Weigand, Henry, Jr., Ph.G., Pharmacist, 59th and State Sts., Chicago.  
Wiedel, Paul Harry, Ph.G., Pharmacist, with E. Wiedel, 548 W. Chicago Ave., Chicago.

## CLASS OF 1899

- Arnold, George Edwin, Ph.G., Pharmacist, with T. S., Arnold, Watseka.  
Barnett, Moses, Ph.G., Pharmacist, 300 Washington Ave., Evansville, Ind.  
Bartells, Charles Waldron, Ph.G., Pharmacist, Gallatin, Mo.  
Biese, Carl August Bernhardt, Ph.G., Pharmacist, with Gale & Blocki, Venetian Bldg., Chicago.  
Brady, Horatio Thomas Addis, Ph.G., Pharmacist, with Scholtz Drug Co., Denver, Colo.  
Buchholz, William John, Ph.G., Pharmacist, Hooper, Neb.  
Chism, John Samuel, Ph.G., Pharmacist, with D. V. Whitney, Kansas City, Mo.  
Dauber, Adolph, Ph.G., Pharmacist [Drexel Pharmacy], 75th St. and Drexel Ave., Chicago.  
Davis, Cyrus Justine, Ph.G., Pharmacist, Oswego, Kas.  
Eipper, August, Ph.G., Pharmacist, with C. C. Coyne, Port Byron.  
Elisburg, Louis Albert, Ph.G., Pharmacist, 682 W. Division St., Chicago.  
Goepfner, George Christopher, Ph.G., Pharmacist, 3700 Wallace St., Chicago.  
Gray, Margaret McClintock, Ph.C., 965 Jackson Boul., Chicago.  
Greene, Grove, Ph.G., Pharmacist, Rockland, Mich.  
Haeseler, Frank Preston, Ph.G., Pharmacist [Haeseler & Willaman], 247 W. Madison St., Chicago.  
Heidbreder, Albert Henry, Ph.G., Pharmacist [Heidbreder Bros.], 802 State St., Quincy.  
Hellmuth, Joseph Anthony, Ph.G., Pharmacist, 1071 N. Robey St., Chicago.  
Herbold, Charles, Ph.G., Pharmacist, with Gazzolo Drug and Chemical Co., 86 W. Madison St., Chicago.

- Jansen, William Leonard, Ph.G., Pharmacist, with J. T. Lueder, 69th and Halsted St., Chicago.
- Johnson, Alva Andrew, Ph.G., Pharmacist, with C. W. Jenkins, Kilbourn, Wis.
- Jungk, Walter August, Ph.G., Pharmacist, partner with C. W. Jungk, 4658 State St., Chicago.
- Lawrence, John Whitaker, Ph.G., Chemist, Chicago Heights.
- Martin, John Wright, Ph.G., Pharmacist, Wrightsville, Ga.
- Marvin, Zebina Earle, Ph.G., Traveling Salesman with Armour & Co., Coldwater, Mich.
- Meinzer, Alonzo Edward, Ph.G., Pharmacist, Armour, So. Dak.
- Michelmann, Albert, Ph.G., Pharmacist, with Jacob & McQuaid, 43d St. and Cottage Grove Ave., Chicago.
- Mitchell, Jay Howard, Ph.G., Pharmacist, with City Hall Pharmacy, Webster City, Iowa.
- Nickerson, Howard Arthur, Ph.G., Medical Student, 2620 Lawrence St., Philadelphia, Pa.
- Nims, Boyden, Ph.G., Assistant in Physiological Chemistry, University of Michigan, Ann Arbor, Mich.
- Phipps, Luther Hansford, Ph.G., M.D., Physician, Edgewater.
- Pick, Emil Emil, Ph.G., Pharmacist, 477 Ogden Ave., Chicago.
- Pokorney, Frank Joseph, Ph.G., Medical Student, University of Illinois College of Medicine, 105 Bunker St., Chicago.
- Price, Walter Thomas, Ph.G., Pharmacist, with Smith Bros., McKinney, Tex.
- Reuter, William Conrad, Ph.G., Pharmacist, with Henry Reuter, W. Madison and W. 40th Sts., Chicago.
- Robson, Andrew Jackson, Ph.G., Pharmacist, Freeport.
- Samuelson, Carl John (Hobart, Ind.).
- Schimelfenig, Charles Howard, Ph.G., Pharmacist, 55th St., near Calumet Ave., Chicago.
- Schrodt, Jacob, Ph.G., Pharmacist, with Bass & Bro., Terrell, Texas.
- Seibert, Daniel Peter, Ph.G., Pharmacist, 482 W. Lake St., Chicago.
- Snyder, William Edward, Ph.G., Pharmacist [C. J. Snyder & Bros.], 2506 State St., Chicago.
- Smith, Frank George Douglas, Ph.G., Pharmacist, 210 DeKalb St., Bridgeport, Pa.
- Smith, Robert Clyde, Ph.C., Chemist, with C. & N. W. R. R., 425 Home Ave., Oak Park.

- Sturges, Isa Belle, Ph.G., Mt. Vernon, Ia.  
Swanson, Harold Gideon, Ph.G., Reliance Pharmacy, 100 State St.,  
Chicago.  
Taylor, George Owen, Ph.G., Pharmacist, with John Byrud, 135  
Ashland Blvd., Chicago.  
Taylor, Raymond Eugene, Ph.G., Pharmacist, Los Angeles, Cal.  
Vannatta, DeWitt Snow, Ph.G., Pharmacist, D. S. Vannatta & Co.,  
West End Ave. and Illinois St., Chicago Heights.  
Woelz, Frederick Wilhelm, Ph.G., Pharmacist [F. W. Woelz &  
Bro.], Appleton, Wis.  
Zerbst, William, Ph.G., Pharmacist, with B. S. Cooban, 559 63d St.,  
Chicago.

## CLASS OF 1900

- Alexander, John William, Ph.G., Pharmacist, with J. T. Jencks,  
Elgin.  
Arnold, Almond Clifford, Ph.G., Pharmacist (A. C. Arnold & Co.),  
Perrington, Mich.  
Boehm, Rudolph Sigfried, Ph.G., Pharmacist, with J. J. Boehm,  
646 Blue Island Ave., Chicago.  
Caron, Walter, Ph.G., Pharmacist, 109 Blue Island Ave., Chicago.  
Daley, William Henry, Ph.G., M.D., Pharmacist, U. S. Navy, Naval  
Recruiting Station, Masonic Temple, Chicago.  
von Danden, Raymond, Ph.G., Pharmacist, with French Drug Co.,  
Tacoma, Wash.  
Davis, Leonard Watkins, Ph.G.  
Drake, T. Guthred, Ph.G., Pharmacist, with Dale & Sempill Drug  
Co., 135 Clark St., Chicago.  
Drallmeier, Fred Henry, Ph.G., Pharmacist, with E. T. Granacher,  
Quincy.  
Emerson, Irving Lewis, Ph.G., Pharmacist, with Hanson & Emer-  
son, Sauk Center, Minn.  
Freeman, Roscius Wright, Ph.G., Pharmacist (R. S. Freeman &  
Son), River Falls, Wis.  
Fulton, Peter McMullen, Ph.G., Pharmacist, Gayville, S. D.  
Gillette, Arthur S., Ph.G., Pharmacist, Warsaw.  
Graham, William Rice, Ph.G., Pharmacist (W. D. Graham & Son),  
Carlinville.  
Holderread, Walter, Ph.G., Pharmacist, Divernon.  
Houseman, Gilbert James, Ph.G., Pharmacist, with H. H. Craw-  
shaw, Ogden and Turner Aves., Chicago.

- Jackola, Abraham Arthur, Ph.G., Pharmacist, Calumet, Mich.
- Ives, George Smith, Ph.G., Pharmacist, Franklin Grove.
- \*James, Clarence Lorenzo, Ph.G., died at Chicago, June 8, 1901.
- Johnson, John August, Ph.G., Pharmacist, with T. Mygdal. 547 N. California Ave., Chicago.
- Kiedaisch, George Arthur, Ph.G., Pharmacist (J. F. Kiedaisch & Son), Professor of Pharmacy, Keokuk College of Pharmacy, 1028 Main St., Keokuk, Ia.
- Kucera, Anton, Jr., Ph.G., Pharmacist, with Dr. H. D. Hull, Hazelhurst, Wis.
- Lestina, Joseph Matthew, Ph.G., Pharmacist, 6656 State St., Chicago.
- Paul, George Henry, Ph.G., Pharmacist, with G. W. Paul, Augusta, Wis.
- Priest, Fred Horace, Ph.G., Pharmacist, with W. E. Van Arsdale & Co., Hastings, Ia.
- Lyon, Fred Bayard, Medical Student, Lyons, Kas.
- Pfaff, Fred Lewis, Ph.G., Pharmacist, with J. J. Pfaff & Co., Centralia.
- Rose, William Ernest, Ph.G., Pharmacist, with Waldorf Drug Co., 193 S. Clark St., Chicago.
- Rounds, Marvin Bird Cleo, Ph.G., Pharmacist, with C. B. Rounds, West Pullman.
- Schreiber, Louis, Ph.G., Pharmacist, with C. F. Hoelin, Columbus, Nebraska.
- Solomon, Leo K., Ph.G., Pharmacist, 47th St. and Evans Ave., Chicago.
- Stamm, Alfred Wenzell., Ph.G., Pharmacist, 317 Forest Home Ave., Milwaukee, Wis.
- Steyer, George Edward, Ph.G., Pharmacist (H. A., 732 Flournoy St.), Chicago.
- Stimson, Charlotte Elizabeth, Ph.G., Pharmacist, with Baptist Hospital, 34th St. and Rhodes Ave., Chicago.
- Utt, Alfred Reuben, Ph.G., Pharmacist, with Bush & Simonson, Downers Grove, Glenn Ellyn.
- Vincent, Philip Darius, Ph.G., Pharmacist, with F. D. Williams, 212 West Broad St., Texarkana, Tex.
- Warlianik, Alvernon Frank., Ph.G., Pharmacist, with E. M. Warhanik, 989 W. 22d St., Chicago.
- Webster, Charles Jeremiah, Ph.G., Pharmacist, with Riverside Pharmacy, Pueblo, Colo.

Weibel, Alfred Tennyson, Ph.G., Pharmacist, with Englewood Pharmacy, 63d and Halsted Sts., Chicago.

Wellman, Walter Henry, Ph.G., Pharmacist, Mt. Sterling.

#### CLASS OF 1901

Bank, Harry Lawrence Marie, Ph.G. (Boston, Mass.)

Bogue, Ralph Foster, Ph.G., Pharmacist, with Howk & Bignold, 22d and State Sts., Chicago.

Bradley, Ira Clark, Ph.G., Pharmacist (Miller & Bradley), Coal City.

Briggs, William Jefferson, Ph.G., Pharmacist, Burlington, Kas.

Clarke, Fred Blaine, Ph.G., Pharmacist on board U. S. S. Helena, U. S. Navy.

Crew, James Henry, Ph.G., Pharmacist, 2904 27th Ave., South Minneapolis, Minn.

Czaja, Peter, Ph.G., Pharmacist, 806 S. Ashland Ave., Chicago.

Delbridge, Cyril John, Pharmacist, with J. B. Delbridge, 65 Washington St., Chicago.

Dewitz, Otto John, Ph.G., Student University of Illinois Medical College, 719 W. Van Buren St., Chicago.

Downey, William, Ph.G., Pharmacist, Lostant.

Englert, William Robert, Ph.G., Pharmacist, Elko, Nev.

Everett, Edwin, Jr., Ph.G., Pharmacist, with E. Everett, Atkinson.

Fernholz, Edward Nicholas, Ph.G., Pharmacist, Jefferson, Wis.

Fox, Guy Gore, Ph.G., Chemist, with Armour & Co., 402 Galveston St., Ft. Worth, Tex.

Giese, Harry William, Ph.G., Pharmacist, Haering & Giese, 920 W. Washington St., Bloomington.

Glogau, Alexander, Ph.G.

Gregg, Maude Alma, Ph.G., Pharmacist, Attica, Kan.

Hamer, George Henry, Ph.G., Pharmacist, with H. Langenhan, 422 W. 12th St., Chicago.

Hartig, Henry, Ph.G., Pharmacist, with H. L. Ziegler, 624 Knoxville Ave., Peoria.

Hobart, Maude Finley, Ph.G., Pharmacist, with F. E. Hobart, Gilman.

Hogan, Daniel Joseph, Ph.G., Pharmacist, 2170 W. 26th St., Chicago.

Hopkins, Richard Herbert, Ph.G., Pharmacist, with Hopkins Drug Co., Colo, Ia.

Howk, Charles, Ph.G., Pharmacist (Howk & Bignold), 22d and State St., Chicago.

- Jensen, Eli, Ph.G., Pharmacist, with L. P. Larsen, 1621 W. 12th St., Chicago.
- Karr, Robert August, Ph.G., Pharmacist (Robert Karr & Co.), Herrin.
- Kraemer, Frank William, Pharmacist, with J. S. Hottinger, 224 Lincoln Ave., Chicago.
- Lyons, George Henry, Ph.G., Pharmacist, with Ballinger & Siggins, Meadville, Pa.
- Mayo, Frederick William, Ph.G., Pharmacist, 6th and Chelsea Sts., Memphis, Tenn.
- McDougall, Joseph Donald, Ph.G., Pharmacist, with J. Rosenthal, 3300 Cottage Grove Ave., Chicago.
- Newman, Frank Leslie, Ph.G., Pharmacist, with Chladek Brothers, 63d St. and Cottage Grove Ave., Chicago.
- Oliver, Richard Lisle, Ph.G., Pharmacist, with O. S. Betting, 168 S. Halsted and Jackson Sts., Chicago.
- Orbesen, Christ Jensen, Pharmacist, 740 W. North Ave., Chicago.
- Parker, Charles Wilbur, Ph.G., Pharmacist, with Parke, Davis & Co., Detroit, Mich.
- Perry, Benjamin, Ph.G., student University of Illinois Medical College, Chicago.
- Peterson, Enoch Fred, Ph.G., student, University of Illinois Medical College.
- Phillips, William Robetoy, Ph.G., Pharmacist (H. A., 4657 Calumet Ave.), Chicago.
- Price, Moses Reuben, Ph.G., Pharmacist, with Buck & Rayner, State and Madison Sts., Chicago.
- Randack, Frank Joseph, Ph.G., Pharmacist, 719 Loomis St., Chicago.
- Reichmann, Albert, Ph.G., Pharmacist, with H. A. Stillman, 106 N. Bluff St., Joliet.
- Rennen, William Anthony, Ph.G., Pharmacist (Healy & Rennen), Webster Ave. and Halsted St., Chicago.
- Rodenhauser, William Robert, Ph.G., student University of Illinois Dental College, Chicago.
- Roesch, Anton, Ph.G., Pharmacist (Roesch & Salchert), 514 W. 12th St., Chicago.
- Salchert, Herman Anton, Ph.G., Pharmacist (Roesch & Salchert), 514 W. 12th St., Chicago.
- Samuels, John Jacob, Ph.G., Pharmacist, with J. & W. E. Holland, 268 E. 55th St., Chicago.



- Saxe, George, Ph.G., Pharmacist, with Academy Pharmacy, St. Louis, Mo.
- Schaefer, Walter Johann, Ph.G., Pharmacist (Borchert & Co.), Kyle, Tex.
- Schaffarzick, Charles Frank Ralph, Ph.G., Student, University of Illinois Medical College, 476 Milwaukee Ave., Chicago.
- Schmitt, Walter, Ph.G., Pharmacist, Assistant in Chemistry, University of Illinois School of Pharmacy, Professor of Chemistry, Dearborn Medical College, 465 State St., Chicago.
- Schultz, Charles Frank, Ph.G., Pharmacist (Schultz Bros.), Neenah, Wis.
- Schulze, Arthur Henry, Ph.G., Pharmacist, with E. von Hermann (Reliance Bldg. Pharmacy), 100 State St., Chicago.
- Shapiro, Morris Albert, Ph.G., Pharmacist, with Harrison Pharmacy, 361 State St., Chicago.
- Shaw, Vincent Howard, Ph.G., Pharmacist, with C. L. Shaw, Kidder, Mo.
- Stahl, Edward Henry, Ph.G., Pharmacist, Kansas City, Mo.
- Swan, John Clyde, Ph.G., Pharmacist, with V. N. Swan, Maywood.
- Swartz, Frank Elijah, Ph.G., Pharmacist, Roca, Neb.
- Ullman, Chester Arthur, Ph.G., Pharmacist, with Dell & Co., 430 W. Randolph St. (H. A., 879 St. Louis Ave.), Chicago.
- Whisenant, Walter Hines, Pharmacist, with J. Pfeiffer, 241 W. Commerce St., San Antonio, Tex.

#### CLASS OF 1902

- Bornemann, Sara Sibree, 630 Maple Ave., Oak Park.
- Bowman, Charles Odus, Pharmacist, with S. W. Ross, 1187 Harrison St., Chicago.
- Bourne, Carl Elwood, Ph.G., Pharmacist, Lewis, Ind.
- Brenke, Gustav Adelbert, Ph.G., Pharmacist, with the Searle & Hereth Co., 75 Wells St., Chicago.
- Brown, Frederick Andrew, Pharmacist, with Dr. M. E. Blanchard, Marseilles.
- DeLand, Harry Rollins, Ph.G., Pharmacist, with A. H. Morris, Shelton, Neb.
- Drewitz, John William, Pharmacist, with F. J. Germer, Wrightwood & Lincoln Aves., Chicago.
- Engel, Walter Frank, Ph.G., Pharmacist, 361 W. Chicago Ave., Chicago.
- Fawcett, Jacob Theodore, Ph.G., Pharmacist, with G. E. Case, Princeton.

- Forbrich, Philip Joseph, Ph.G., Pharmacist, with J. F. Forbrich, 301 35th St. (Home Address, 3440 S. Park Ave.), Chicago.
- Freeman, William Benjamin, Ph.G., Pharmacist, E. R. Wolfner, 351 S. Clark St. (H. A., 3560 Vincennes Ave.), Chicago.
- Friesenecker, Charles Matthias, Ph.G., Pharmacist, with C. W. Baker, 35th St. and Archer Ave., Chicago.
- Hamley, Arthur Leroy, Pharmacist, Sprague, Wash.
- Heidbreder, Frank Herman, Ph.G., Pharmacist (Heidbreder Bros.), 802 State St., Quincy.
- Hibbe, Harry Mathew, Ph.G., Pharmacist, 1125 W. North Ave., Chicago.
- Houseman, Guy Weedman, Ph.G., Pharmacist, with J. H. Feltham, 8th and Washington Sts., Springfield.
- Keller, Walter Valentine, Ph.G., Pharmacist, with H. Langenhan, 422 W. 12th St., Chicago. (H. A., 277 W. 20th Pl., Chicago.)
- Kemp, Harold Brooke, Ph.G., Pharmacist, 47th and Evans Ave., Chicago.
- Knaak, Theodore John, Ph.G., Pharmacist, with Geispitz, 757 N. Halsted St., Chicago. (H. A., Deerfield).
- Laufer, Ernest William David, Ph.G., Pharmacist, with Wm. Gillmann, 1025 N. Clark St. (H. A., 355 Janssen Ave.), Chicago.
- Martz, Lewis Melvin, Ph.G., Pharmacist, Watonga, Okla.
- McClenahan, Carl Dilly, Pharmacist, with Gates' Pharmacy, 1299 W. Ravenswood Park, Chicago.
- McCormick, George Allan, Ph.G., Pharmacist at Cook County Institutions, Dunning.
- Moyer, Harry Thomas, Ph.G., Pharmacist, with Fraser & Co., 28 E. Washington St., Chicago.
- Mercil, Elmer Joseph, with B. Mercil & Sons' Plating Co., 15 N. Clinton St., Chicago.
- Pierce, Frank Elbert, Ph.G., Pharmacist, Goodland, Ind.
- Pedigo, Lee Murray, Pharmacist, with Portland Pharmacy, 6001 Washington Ave., Chicago.
- Rolff, Max Otto, Ph.G., Pharmacist, with F. Leuder, 511 S. Adams St., Peoria.
- Rommel, Hans Carl Curt, Ph.G., Pharmacist, Mngr. Grandville Pharmacy, 2967 Evanston Ave., Chicago.
- Schleder, Arthur Theodore, Ph.G., Pharmacist, with Robert Metz, Lena.
- Schmidt, Charles Henry, Ph.G., Student, University of Illinois Medical College, Chicago. (380 N. Ashland Ave., Chicago.)

- Seltzer, Albertus, Ph.G., Pharmacist, with M. F. Faulkner, Rolla, Mo.
- Smith, Brazill Oscar, Ph.G., Pharmacist, with W. C. Budlong, Aurora.
- Snow, Clyde Mason, Ph.G., Pharmacist, Assistant in Pharmacy, University of Illinois School of Pharmacy, Professor of Pharmacy, Harvey Medical College, 358 Dearborn St., Chicago.
- Stegmayer, Charles Gottlieb, Ph.G., Student, attending Northwestern University Medical College, Chicago.
- Walker, Frederick Douglas Garnet, Ph.G., Pharmacist, with the Meyers-Dillon Drug Co., 506 Ware Blk., Omaha, Neb.
- Welker, Charles John, Pharmacist. (H. A., 4328 Prairie Ave.), Chicago.
- Wheatcroft, John Christopher, Ph.G., Pharmacist, Grayville.
- Wirth, Adolph George, Ph.G., Pharmacist, with Max Wirth. 13 W. Superior St., Duluth, Minn.

#### CLASS OF 1903

- Alkire, Lewis Lambert, Pharmacist, 2116 Welton St., Denver, Colo.
- Ansorge, William Kilian, Ph.G., Pharmacist, with E. C. Zobel, 1373 Sheffield Ave., Chicago.
- Bauer, August Harvey, Ph.G., Student, University of Illinois, Champaign.
- \*Beardsley, Carolyn Frances, Ph.G., died at Chicago, December 14, 1903.
- Calhoun, Hal Neuton, Ph.G., Pharmacist, E. von Hermann Co., 31st St. and Indiana Ave., Chicago.
- Charters, John Dixon, Ph.G., Pharmacist, with G. R. Charters, Ashton.
- Denis, Sidney Alvaro, Ph. G., Pharmacist with W. C. Scupham, 63 Wabash Ave., Chicago.
- Fritz, Oscar Albert, Ph.G., Pharmacist, 2112 W. 6th St., Cincinnati, Ohio.
- Hagemann, William G. Herman, Ph.G., Pharmacist, with Heidbreder Bros., 802 State St., Quincy.
- Hatton, Henry Timothy, Ph.G., Salesman, with Lambert & Lowman, Mnfg. Chemists, Detroit, Mich.
- Henke, Albert Philip, Ph.G., Pharmacist, with W. C. Budlong. Aurora.
- Hood, Harry Alling, Ph.G., Pharmacist, with J. Michalek, Chicago Heights.

- Hironimus, Otto, Ph.G., Pharmacist, with E. C. Datin, 47th St. and Champlain Ave., Chicago.
- Jeronimus, Henry Jurgen Huwald, Ph.G., Pharmacist, with the Lyceum Pharmacy, Duluth, Minn.
- Justus, Samuel Vansant, Ph.G., Pharmacist, with F. J. Schmidt, 71st St. and Cottage Grove Ave., Chicago.
- Kappus, John Martin, Ph.G., Pharmacist (Kappus Bros.), 1688 W. North Ave., Chicago.
- Karlovsky, Emil Jan, Ph.G., Pharmacist (H. A., 674 W. 21st Pl.), Chicago.
- Koepsell, August John, Ph.G., Pharmacist, Mayville, Wis.
- Lawrence, Victor Emanuel, Ph.G., Pharmacist, with Dyche & Co., 65 Randolph St., Chicago.
- Marshall, Charles Stephen, Ph.G., Pharmacist, Watonga, Okla.
- Meyer, Frederick Hugo, Ph.G., Pharmacist, with J. P. Lee Drug House, 262 S. Halsted St., Chicago. (H. A., 227 Janssen Ave.)
- Mick, Carl Frederick, Ph.G., Pharmacist, with Wm. Duncan, Ottawa.
- Montgomery, Walter Raymond, Ph.G., Pharmacist, with W. P. Knoche, 61st and Halsted Sts., Chicago.
- Pulford, George William, Ph.G., Pharmacist, with R. J. Lauterbach, 55th St. and Wentworth Ave., Chicago.
- Rigg, Joe Griffith, Ph.G., Pharmacist, with L. P. Larsen, 1496 W. Madison St., Chicago.
- Schafer, Charles Henry, Ph.G., Pharmacist, with J. W. Dysle & Co., Marietta, O.
- Schmitt, Henry John, Pharmacist, with M. Georges, 445 E. North Ave., Chicago.
- Sheblessy, Michael Albert, Ph.G., Pharmacist, with F. M. Mares, 2876 Archer Ave., Chicago. (H. A., 2933 Farrell St.)
- Shinnick, Joseph Richard, Ph.G., Pharmacist, with J. E. Voigt, 156 Center St., Chicago.
- Stadelmann, Harry Edgar, Ph.G., Pharmacist, with A. W. Stadelmann, 1655 69th St., Chicago.
- Storkan, Charles Nicholas, Ph.G., Pharmacist, 482 N. Western Ave., Chicago.
- Stulik, Henry, Pharmacist, with J. Novak, 724 W. 18th St. (H. A., 527 Winchester Ave.), Chicago.
- Voss, Fritz, Ph.G., Pharmacist, with Northwestern Pharmacy, 1218 Milwaukee Ave., Chicago.
- Zamentowsky, David, Pharmacist, with J. W. Trimen, 1427 Michigan Ave., Chicago. (H. A., 468 State St.)





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**CLASS OF 1899**

Aldrich, Arthur C., La Porte, Ind.  
Allender, Fred C., Bloomfield, Ia.  
Barrows, Edward B., DeSoto, Mo.  
Bradford, William S., 146 State St., Chicago.  
Brophy, Henry, 648 W. North Avenue.  
Brown, J. Addison, Champaign.  
Brown, Harry H., 69th and Stewart Ave., Chicago.  
Condit, Selby Frane.  
Dodez, Edward Wright, Fort Wayne, Ind.  
Frazier, Claude E., Wetherford, Tex.  
Grantveldt, Harry F.  
Hendricks, Nathan G., Cincinnati, O.  
Jessie, Oren P., Hancock, Wis.  
Hoag, Morris, Nevada, Mo.  
Lancaster, H. N., Masonic Temple, Chicago.  
McGarvey, W. R., Goshen, Ind.  
McCarthy, Jeremiah S., Clayborn and Fullerton Aves., Chicago.  
Rausch, William A., 156 Center St.  
Spafford, William B., Rogers Park.  
Snyder, Harry C., 4729 S. Ashland Ave., Chicago.  
Umbenhauer, George, Montpelier, O.  
Wambold, Charles, Trude Bldg., Chicago.  
Zienlineski, J. B., Milwaukee Ave. and Division St., Chicago.  
Shallenberger, W. C., 752 W. 43d St., Chicago.

**CLASS OF 1900**

Beach, P. Maxwell, Rankin.  
Bisset, Fred A., 3776 Cottage Grove Ave., Chicago.  
Cook, Clarence D., Milwaukee and Chicago Aves., Chicago.  
Dowell, H. S., Walkerton, Ind.  
Edwards, Burt A., Beloit, Wis.  
Garretson, Arthur V., Rockford.  
Grossman, Herman, Halsted, near 12th St., Chicago.

Hollis, Thomas S., Abeline, Tex.  
 Hague, Albert S., 614 Belmont Ave., Chicago.  
 Heckman, John D., Champaign.  
 Hansen, Charles, Dunning.  
 Jaukowski, J. J., 47th and Ashland Ave., Chicago.  
 Jones, Charles Erwin, 228 E. North Ave., Chicago.  
 Morse, Oren P., 987 Ogden Ave., Chicago.  
 Murto, William D., 358 Indiana Ave., Chicago.  
 Neil, Elgin, 591 Chicago Ave., Chicago.  
 Roe, Frank C., 2404 Milwaukee Ave., Chicago.  
 Sinclair, George B., Hutchinson, Kas.  
 Winder, Charles J., Coal City.

#### CLASS OF 1901

Armstrong, Perry A., 156 Center St., Chicago.  
 Brown, Carver M., El Paso, Tex.  
 Clark, A. B., Honolulu, T. H.  
 Corthell, Melvin B., Hudson, Wis.  
 Donaldson, Roy S., Berwin.  
 Elliot, Francis S., Ohio.  
 Fales, Elnora M., 523 Park Ave., Chicago.  
 Frankell, Henry, 12th and Green Sts., Chicago.  
 Hines, Charles S., Belmont and Elston Aves., Chicago.  
 Huff, Martha P., Robey St. and Grand Ave., Chicago.  
 Imbritt, Helen, 2023 W. Madison St., Chicago.  
 Misher, Hunderlich F., 12 State St., Chicago.  
 McCauley, Clayton, 47th and Cottage Grove Ave., Chicago.  
 McDowell, Albert J., Faulkton, S. D.  
 Paden, Charles M., Kedzie and North Aves., Chicago.  
 Reardon, Charles, Armour, N. D.  
 Ramsey, Hal H., Baird, Tex.  
 Rodosy, Adolph, Deer Creek.  
 Rudd, Edward, Arlington, Tex.  
 Smedburg, E. Oscar, 12 State St., Chicago.  
 Springer, Stanley T., Sault Ste. Marie, Mich.  
 Swihart, Simpson S., 47th and Cottage Grove Ave., Chicago.  
 Taylor, George, Ord, Neb.  
 Stecher, Karl, Champlain Bldg., Chicago.  
 Straus, George, LaCrosse, Wis.  
 Watkins, Harry, 2900 Wallace St., Chicago.  
 Wollenberger, Sigmund, 4546 Prairie Ave., Chicago.



## CLASS OF 1902

- Abbott, Carroll Breed, Oshkosh, Wis.  
Adams, Harry Walter, Los Angeles, Cal.  
Alther, Arthur Eugene, Minneapolis, Minn.  
Atwood, Arthur Sevelle, Ludington, Mich.  
Bake, Louis E., 43d and Prairie Ave., Chicago.  
Bawden, Arthur Collan, Mt. Carrol.  
Benson, Henry William.  
Black, James Clarence, Merrysville, Mo.  
Carl, Francis Marion, Freeport.  
Cameron, Walter Patterson, Seattle, Wash.  
Chamberlain, Rollo Guy, West McHenry.  
Cummings, Ernest Grafton, Orange, Tex.  
Daniels, Charles Lyle, West Chicago.  
Donaldson, Robert Patterson, Maywood.  
Dubin, Aaron Joseph, 916 Milwaukee Ave., Chicago.  
Fales, Alfred Henry, 523 Park Ave., Chicago.  
Flachemeier, Arthur Frederick, DeKalb.  
Granger, John Clare, Belvidere.  
Grubb, Harry White.  
Hawes, David Rector, Rock Island.  
Hillier, Charles William, 63d and Green Sts., Chicago.  
Homan, William Withers, North Texas Bldg., Dallas, Tex.  
Kelley, Ernest Byron, 37th and Cottage Grove Ave., Chicago.  
Lichtenberg, Ferdinand Howard, 12th and Halsted, Chicago.  
Merz, Frank Raymond, Ravenswood, Chicago.  
Means, Jay Lee, Pontiac.  
Murphy, John Maxwell, Temple, Tex.  
Murphy, John Richard, Ashland Ave. and Van Buren St., Chicago.  
McGinnis, Robert Johnson, Houston, Tex.  
Owens, Claud DeForest, Grand Haven, Mich.  
Pipkin, William Louis, Ballou St. and Armitage Ave., Chicago.  
Rork, Ray Newman, Areada, Wis.  
Rice, Charles Vernon, Venetian Bldg., Chicago.  
Ratcliff, Frederick Hayes, Ballou and Armitage Ave., Chicago.  
Ruzicka, Martin Joseph, Nebraska.  
Tigner, Charles Hammond, Shreveport, La.  
Taft, Devello Eddie, Monmouth.  
Urbanek, Marie Rose, 72 Fish St., Chicago.  
Wasser, Alvin Sylvester, La Porte, Ind.  
Walk, William Joseph, Hebron, Ind.

## CLASS OF 1903

- Adams, L. E., 5939 W. Erie St., Chicago.  
 Altenburg, C. F., Manston, Wis.  
 Applegate, E. W., Robey and Division Sts., Chicago.  
 Bawden, S. R., Mt. Carrol.  
 Bond, J. H., Fairbury, Neb.  
 Broman, A. A., Houghton, Mich.  
 Cadwallader, H., 519 W. 66th St., Chicago.  
 Erlands, J. O., 917 Walnut St., Racine, Wis.  
 Finley, C. A., South Chicago.  
 Gottlieb, S., 485 N. Robey St., Chicago.  
 Greenfield, A. R., Pawnee City, Neb.  
 Hammersmith, O. J., 1800 Seneca St., Buffalo, N. Y.  
 Hanna, E. A., 1027 Davis St., Evanston.  
 Hill, H. H., Winnebago City, Minn.  
 Hulla, E., Crete, Neb.  
 Johnson, E. W., 201 W. Erie St., Chicago.  
 Karcher, W. H., Streator.  
 Mann, A. H., Rochester, Mich.  
 Maturzynska, T., 893 Milwaukee Ave., Chicago.  
 Monahan, J. E., 573 W. Erie St., Chicago.  
 Murray, M. G., Spring Green, Wis.  
 McElroy, J. D., 5621 Wabash Ave., Chicago.  
 Newlin, A. R., 85 Powell Ave., Chicago.  
 O'Neil, V. E., Canton, S. D.  
 Paden, S. D., Kedzie and North Ave., Chicago.  
 Palmer, G. F., 727 Main St., Kewanee.  
 Peck, G. S., Durand, Wis.  
 Post, W. M., Fond du Lac, Wis.  
 Rasmussen, N. P., 399 Moffat St., Chicago.  
 Reinbold, J. E., Chilton, Wis.  
 Ryan, F. J., 645 Harrison St., Chicago.  
 Scott, J., 26th and Canal Sts., Chicago.  
 Sprague, T. H., Onarga.  
 Stahl, F. M., Van Buren and Halsted Sts., Chicago.  
 Swartz, F. H., Yorkville.  
 Taylor, W. H., Vermont.  
 Taylor, W. F., Fond du Lac, Wis.  
 Wardner, G. H., Ottawa.  
 Waterman, C. E., 5413 Jackson Ave., Chicago.



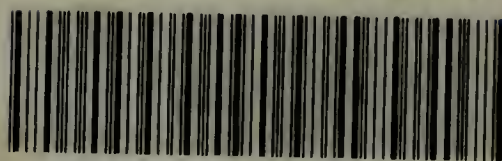








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